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CREATOR® 快捷

CREATOR CORPORATION（CHINA）

User's Manual of DIG series Full Digital conference system

V1.2

CREATOR CHINA

Meaning of the Symbols

■ Safety instructions

For your safe and correct use of equipments, we use a lot of symbols on the equipments and in the manuals, demonstrating the risk of body hurt or possible damage to property for the user or others. Indications and their meanings are as follow. Please make sure to correctly understand these instructions before reading the manual.

	This is A level product, which may cause radio interference in the living environment. In this case, users may need to take the feasible measures to get around the interference.
	Remind users that the dangerous voltage without insulation occurring within the equipment may cause people suffer from shock
	CE certification means that the product has reached the directive safety requirements defined by the European Union. Users can be assured about the use of it
	SGS certification means that the product has reached the quality inspection standards proposed by the world's largest SGS.
	This product passed the ISO9001 international quality certification (certification body: TUV Rheinland, Germany).
	Warning: in order to avoid electrical shock, do not open the machine cover, nor is the useless part allowed to be placed in the box. Please contact the qualified service personnel.

■ General information instructions

	It lists the factors leading to the unsuccessful operation or set and the relevant information to pay attention to

Important Notices

warning

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance:

The matters needing attention of installation

◆Please do not use this product in the following places: the place of dust, soot and electric conductivity dust, corrosive gas, combustible gas; the place exposed to high temperature, condensation, wind and rain; the occasion of vibration and impact . Electric shock, fire, wrong operation can lead to damage and deterioration to the product, either;

◆in processing the screw holes and wiring, make sure that metal scraps and wire head will not fall into the shaft of controller, as it could cause a fire, fault, or incorrect operation;

◆when the installation work is over, it should be assured there is nothing on the ventilated face, including packaging items like dust paper. Otherwise this may cause a fire, fault, incorrect operation for the cooling is not free,;

◆Should avoid wiring and inserting cable plug in charged state, otherwise it is easy to cause the shock, or electrical damage;

◆The installation and wiring should be strong and reliable, contact undesirable may lead to false action;

◆For a serious interference in applications, should choose shield cable as the high frequency signal input or output cable, so as to improve the anti-jamming ability of the system.

Attention in the wiring

◆ Only after cutting down all external power source, can install, wiring operation begin, or it may cause electric shock or equipment damage;

◆This product grounds by the grounding wires .To avoid electric shocks, grounding wires and the earth must be linked together. Before the connection of input or output terminal, please make sure this product is correctly grounded;

◆Immediately remove all other things after the wiring installation. Please cover the terminals of the products cover before electrification so as to avoid cause electric shock;

Matters needing attention during operation and maintenance

◆ Please do not touch terminals in a current state, or it may cause a shock, incorrect operation;

◆ Please do cleaning and terminal tighten work after turning off the power supply. These operations can lead to electric shock in a current state;

◆ Please do the connection or dismantle work of the communication signal cable , the expansion module cable or control unit cable after turning off the power supply, or it may cause damage to the equipment, incorrect operation;

◆ Please do not dismantle the equipment, avoid damaging the internal electrical component;

◆ Should be sure to read the manual, fully confirm the safety, only after that can do program changes, commissioning, start and stop operation;

Matters needing attention in discarding product

◆ electrolytic explosion: the burning of electrolytic capacitor on circuit boards may lead to explosion;;

◆ please collect and process according to the classification, do not put into life garbage;

◆please process it as industrial waste, or according to the local environmental protection regulations.

Preface

Full Digital conference system User's Manual mainly introduces the operation method of CR-DIG5201、CR-DIG5200BK、CR-DIG5202A2、CR-DIG5204A2、CR-DIG5202B2、CR-DIG5204B2、CR-DIG5202E2、CR-DIG5204E2、CR-DIG5202D2、CR-DIG5204D2、CR-DIG5202C1、CR-DIG5204C1、CR-DIG5202C2、CR-DIG5204C2 、 CR-DIG5206CH 、 CR-DIG5207SP 、 CR-DIG5205DS 、 CR-DIG5205DS-S 、 CR-DIG52032BOX、CR-DIG5203E3、CR-DIG5200EXP、Their main performance parameters and common fault solutions.

This manual is only used as user instruction, not for a repair service usage. The functions or related parameters may be changed since the date of issue, please inquire the supplemental information from CREATOR Electronics or local distributors.

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Chapter 1 Summary

The CREATOR Full digital conference system, is another high-tech professional product series following multimedia control products and audio and video matrix products, including systems of discussions and statements, simultaneous interpretation, infrared voice allocation, remote conference call, the vote, the electronic table card, camera tracking, etc.

Adhering to the concept of comprehensive system integration solutions which the CREATOR has always advocated, CREATOR can achieve close compatibility between two different systems, namely digital conferencing systems and multimedia central control system, thus compose a comprehensive intelligent conferencing solution by CREATOR products.

The Full digital conference system is the fifth-generation CREATOR conferencing products, and all aspects have been upgraded. Specifically, the system stability, ease of operability and so have been further improved.

This manual applies to control host unit of speech, the camera tracking system, teleconferencing systems, and infrared voice distribution system of the CREATOR full digital conference system.

Chapter 2 conference controller

2.1 DIG5201

CR-DIG5201 full digital conference host is a core part of the all digital conference system, set to vote, microphone management, cable simultaneous, electronic card tables high-throughput data processing in one, using feedback suppression, noise reduction, automatic gain, digital equalizerDSP processing technology. Support a variety of conference mode selection, suitable for all types of meetings. full digital conference host can be installed in standard 19 in. rack, easy to store and custody.

2.1.1 features

◆ Compatible with IEC 60914, GBT 15381-94;

◆ Ultra-five wire shielded cable, 100M network full-digital audio and control signal transmission, sound quality is not affected in long distance transmission;

◆ Built-in high-performance CPU, set the translation, discuss, sign, vote, electronic nameplate as a whole, be capable of high-speed voting, vote, information transmission, can support for the 4000 meeting units to the maximum;

◆ can simultaneously open 8 mic, 15 +1 channels simultaneous interpretation;

◆ 48K sampling, bandwidth of 20 ~ 20K perfect sound quality;

◆ 32-bit high speed DSP floating-point processing, acoustic feedback suppression, echo cancellation, noise cancellation, digital equalizer, all to provide a perfect sound quality of high sensitivity ;

◆ control, the TCP / IP to provide reliable security management and control;

◆ has a 15 +1 channel simultaneous output, connected with the infrared simultaneous interpretation or recording equipment;

◆ eight output-alone-microphones, you can record separately by connecting to the recording equipment;

◆ with telephone coupler, teleconference can be carried out ;

◆ with the camera tracking system, camera automatic tracking can be realized;

◆ host and PC software unified management unit and intelligent fault analysis, can analyze the conference unit type, number, distribution, faults and ets.

◆ provide true balanced, unbalanced, optical digital output;

◆ has four conference mode: FIFO (FIFO mode), the NORMAL (normal mode), FREE (free mode), APPLY to (application mode);

◆ limit the number of speakers for independent meeting, or use the PC software for the meeting;

◆ provide a wide range of services, such as tea, internal calls, text messages, electronic nameplate;

◆ support the online updating system of unit code to facilitate system maintenance;

◆ all digital conference host can be installed on standard 19 in. rack, easy to store and custody.

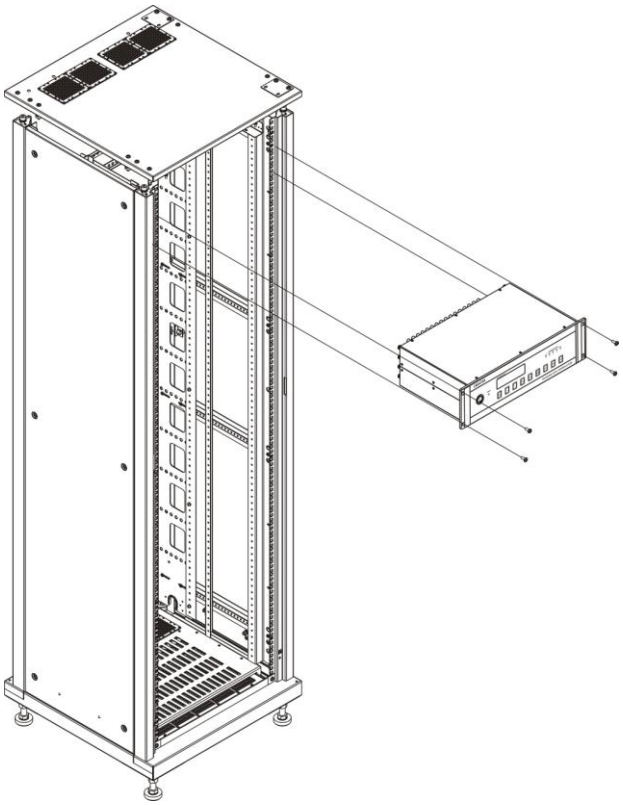
2.1.2 host installation

full digital conference host uses all metal chassis, can be placed together with a variety of devices. In addition, fully digital conference host can also be mounted on a standard19inch cabinet, steps are as follows:

Step one, first fix the hanging ear on the chassis with the screw;

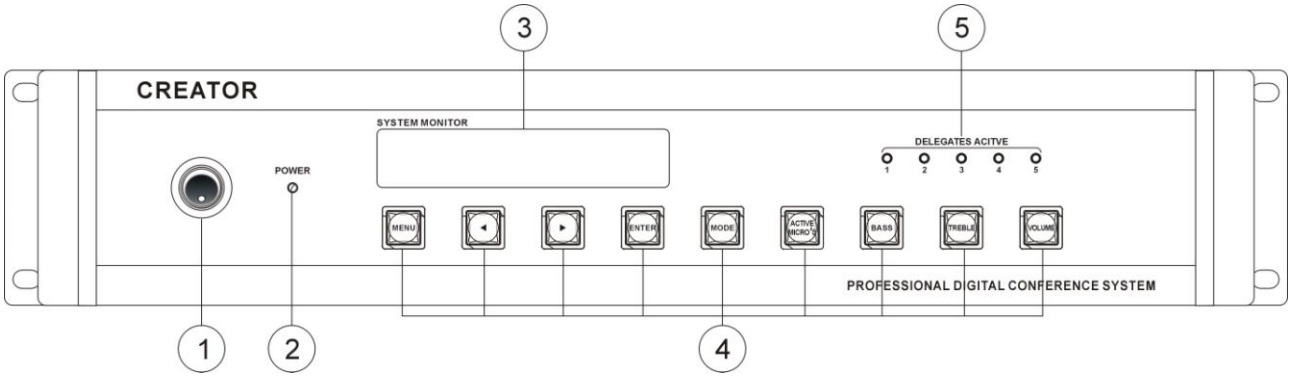
Step two, put the chassis on the standard 19 inch cabinet;

Step three, fix it with a screw. As below:



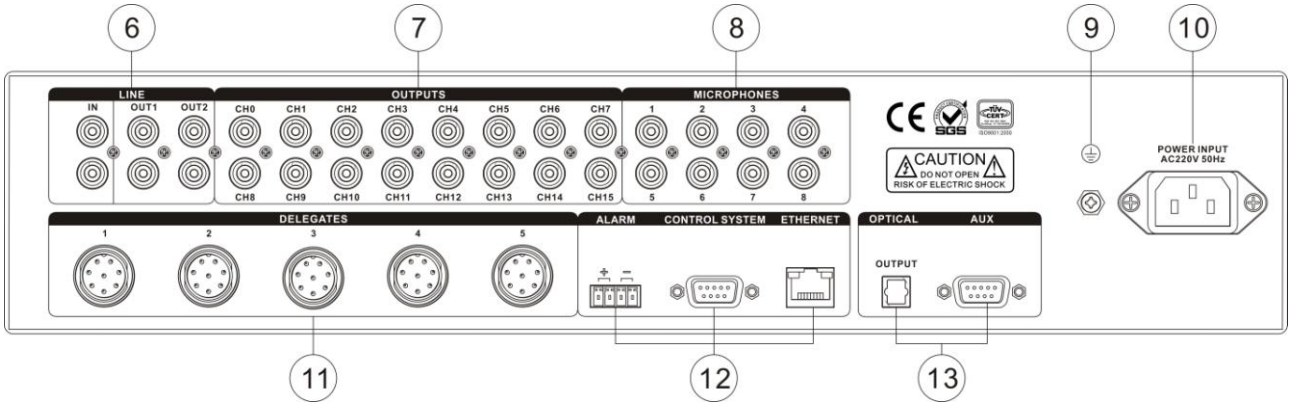
2.1.3 panel description

CR-DIG5201 front panel：



CR-DIG5201 rear panel

the rear panel：



①The host power switch

② POWER - Host power indicator

If system host is normally powered, this indicator lights up.

③ The the LCD display

Display the menus, the button operations and system parameters' information.

④ The MENU - Menu to return button

Press this button to return to the upper menu.

◀ ▶——arrow buttons

Use this button to the left / right to select the menu or adjust the parameter information.

ENTER——the OK button

Save the parameters or enter into the lower menu to perform operations.

MODE——mode set

"MODE" button has "Easy Setup" function of the microphone mode, press" MODE "button to enter the" microphone mode" setting interface .you can view the current status or re-set microphone mode, four kinds of modes are available, the FIFO,NORMAL, FREE, APPLY.

Setup steps::

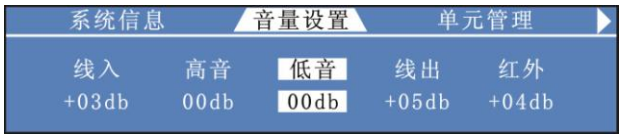
Press the arrow buttons◀ ▶to select a new microphone mode, press "ENTER" button to be OK, then press the "MENU" button to return

ACTIVE MICRO'S——Maximum speech settings

" ACTIVE MICRO'S " button has a " maximum speech" "Easy Setup" function,, press thr "ACTIVE MICRO'S " to enter" the maximum speech "set interface, you can view the current status or re-set the maximum number of speakers. Setup steps are the same with the the "MODE" button settings。

BASS - bass adjustment

The BASS button has a bass adjustment "Easy Setup" function. It is used to adjust the line output and conference unit acoustic bass. press "BASS" button to enter the bass settings interface, you can view the current status or re-set the bass parameters, Setup steps are the same with the the "MODE" button settings。



TREBLE——treble adjustment

The TREBLE button has a Treble Easy Setup function usd to adjust the line output and conference unit sounds treble. Press the TREBLE button to enter the following interface to view their current status or re-set the treble parameters Setup steps are the same with the the "MODE" button settings。

VOLUME——line out adjustment

The VOLUME button has a "line out adjustment" "Easy Setup function usd to adjust the line out and conference unit volume size. Press the VOLUME button to enter the following interface, you can view the current status or re-set line parameters, Setup steps are the same with the the "MODE" button settings。

⑤ **DELEGATES ACITVE——Conference unit communication indicator**

Communication indicator is corresponding to the conference unit on the rear panel. When the conference unit receives a conference unit interface, its correspondent
Indicator light flashes.

⑥ **IN ——external device audio input**

Connect to the background music or the teleconference terminal output.

OUT 1 ~ OUT 2 - Audio output terminals

Connect to a PA system or recording device for recording.

OUT 1, connect to the PA system or recording device or teleconference input, Out1 contains the audio of the conference and the line input audio.

OUT 2, connect to the PA system or recording device or teleconference input. Out2 contains the audio of the conference and the line input audio. OUT1 and OUT2 can compose a balanced output.

⑦ **OUTPUTS ——channel audio output**

15 +1 channel translator channel audio output for connecting the host of the infrared emission.

⑧ **MICROPHONES——microphone output port**

8-channel microphone put out alone.。

⑨ The **ground column。**

⑩ **The system power input port**

The system power input is AC 100V-240V 50/60Hz.

⑪ **DELEGATES——Conference unit interface**

Standard RJ45 connector, 5-way unit connecting port can be connected to the speech unit or translation unit or junction box.

⑫ **ALARM——fire alarm port**

Expansion interface, this interface can be used for fire alarm port

CONTROL SYSTEM——RS-232 serial port

Connect to the host of CR-PGM II central control system or camera tracking host or backup host to realize the function of automatic camera tracking.

ETHERNET——the network port

1 Ethernet port, connect to the computer to implement software management functions of the Conference

⑬ **OPTICAL——Optical output port**

1 optical output interface, corresponding to the audio digital output⑥ in the rear map.

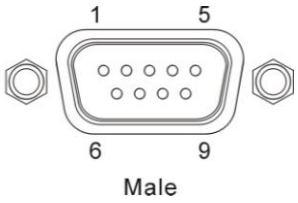
AUX——RS-232 serial port

It is to extend the functionality.

2.1.4 Descriptions of the ports

2.1.4.1 Description of COM port

Full digital conference system can use a variety of control systems via RS-232 serial interface.



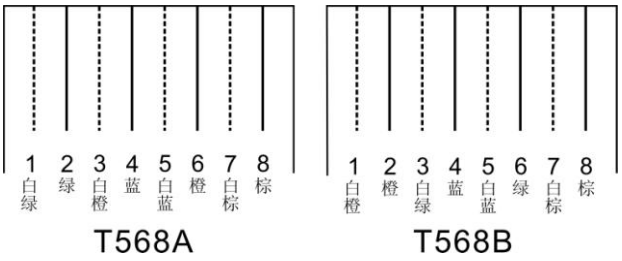
COM port pin is described as follows：

Pin	Signal	Description
1	-	Null
2	TXD	sending data
3	RXD	Receiving data
4	-	Null
5	GND	Signal ground
6	-	Null
7	-	Null
8	-	Null
9	-	Null

2.1.4.2 Production methods of ETHERNET RJ45 cable

The system uses shield five line as the wire, and install RJ45connector (commonly known as crystal head) at the CAT5 ends, and connect the equipment with straight line access network. The standard connection of twisted pair is not arbitrary, it is to ensure the symmetry of cable connector layout, thus to offset the interference between the cables in connector. Super five lines generally have four pairs of twisted thin line, which are marked with different colors.

Twisted pair there are two kinds of connection: EIA / TIA 568B standard and EIA / TIA 568A standard



T568A linear order							
1	2	3	4	5	6	7	8
white green	green	White orange	blue	white blue	orange	white brown	Brown

T568B linear order							
1	2	3	4	5	6	7	8
white orange	orange	white green	blue	white blue	green	white brown	Brown

Direct line: both ends are connected by T568B line sequential standard.

Cross-line: one end is connected by T568A line sequential standard, the other is connected by T568B line sequential standard.

When connected to the network router, it uses the straight line connection. When connected to a PC computer control, it uses crossover cable connection.

2.1.5 Descriptions of panel buttons

2.1.5.1 The LCD display

The LCD display is in steady state

2.1.5.2 The button lamp

On the front panel, there are button operation indicators always being in the red flashing status. Button lamp flashes when a button is pressed, indicating that the selection is successful.

2.1.5.3 menu setup instructions

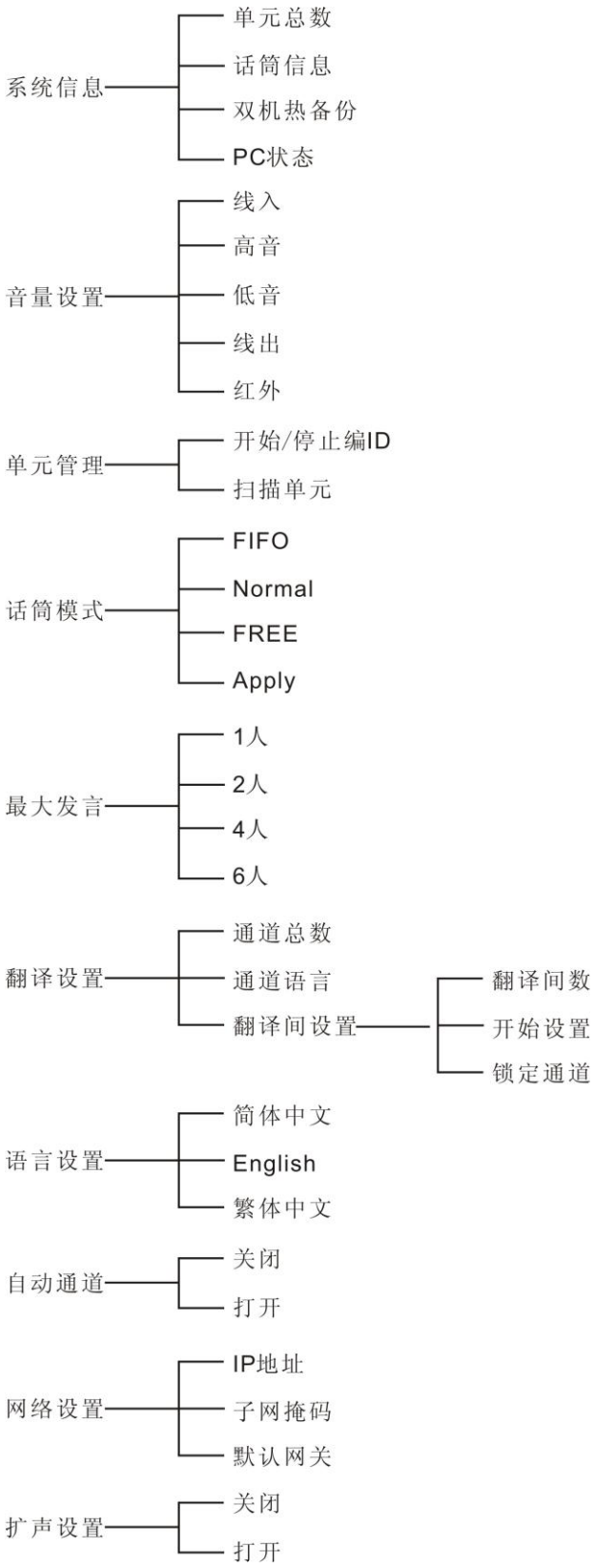
Once it is properly powered, the LCD display backlight is lit simutaniously. Till startup is complete, it will display the main interface, as shown below:

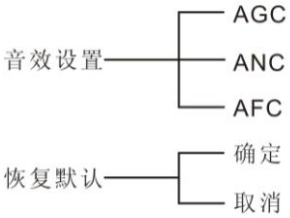
The menu steps can be summarized as：

Properly connected and powered → Select a setting option → Determine the setting options → Select the optional parameter information → Determine the parameter information → Go back and determine the set

2.1.5.4 menu structure instructions

Menu structure diagram：





版本信息

系统信息 System Information
单元总数 the total number of units
话筒信息 Mic information
双机热备份 Dual Backup
PC 状态 PC state

音量设置 Volume setting
线入 Line into
高音 Treble
低音 Bass
线出 Line-out
红外 Infrared

单元管理 Unit management
开始/停止编 ID Start / Stop Coding ID
扫描单元 Scanning unit

话筒模式 Speakerphone mode
最大发言 Maximum speech

翻译设置 Translation set

通道总数 the total number of Channels
通道语音 Channel voice
翻译间设置 Translation room settings
翻译间数 the number of translation rooms
开始设置 begin setting
锁定通道 Lock channel

语言设置 Language settings
简体中文 Simplified Chinese
繁体中文 Traditional Chinese

自动通道 Automatic channel
关闭 Close
打开 Open

网络设置 Network settings
IP 地址 IP address
子网编码 Subnet coding
默认网关 Default Gateway

扩声设置 PA set
关闭 Close
打开 Open

音效设置 Sound settings
恢复默认 Restore the default
确定 Confirm
取消 Cancel

版本信息 Version Information

2.1.5.4.1 System Information

Mainly demonstrate the system state
The maxium speech: indicate the number of the simultaneous opening microphones by representative units, not including the chairman microphone.

Microphone mode: the mode being used by the system

Dual Backup: Displays Dual Backup state.
Three states: "working", the host is in the host mode, and is responsible for the entire meeting data processing; "monitoring", the host is in the backup state and is responsible for the backup data; "Disconnected", no backup host, has no Data Backup

PC Status: display whether connect to PC software

2.1.5.4.2 Volume Settings

Line in: Adjust the input volume of line In.

Treble: Adjust the conference unit fidelity audio treble and line output treble.

Bass: Adjust the conference unit fidelity audio bass and the bass of line output.

Line out: adjust the volume of conference unit fidelity audio and line output

Infrared: **adjust the volume of** interpreters output channel (corresponding to the CR-**DIG5201** rear panel ⑦ CH0 ~ CH15 ⑧ microphone, separate output). Note that CH0 is original sound, only be adjusted by the Infrared menu, cannot be controlled by treble, bass, Line-out menu, and have no AGC ANC AFC function.

2.1.5.4.3 Unit Management

1、 start coding ID

◆ the so-called conference unit ID setting, refer to endow a unique address to every conference unit (including the translation unit and speak unit) for host identification.

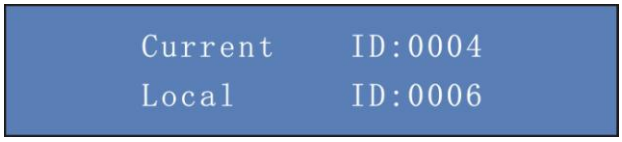
◆ Steps of coding ID

After connecting the conference system, open the conference host power, select the "unit management" and “start coding ID”, the display shows as follows:

All speech units and translation units display as follows：

Speech units display：

Translation units display：



At this point press microphone buttons of conference unit one by one to set ID. Conference unit microphone button indicators blink once or stay lit, suggesting that the current ID is unique. If the button indicators blink several times and then stay lit, indicating that at least there are 2 machines having the current ID. Conference unit microphone button indicators stay lit, the setting of ID is successful. However, if the indicator light keeps blinking, the setting of ID is unsuccessful. After finishing the setting, press “Stop Coding ID” to exit setting. When all the indicators extinguish, the system enters the normal state. If the ID repeats, microphone key indicator of repeated ID conference unit will flash, thus the repeated ID should be reset. The host system information menu will warn about the repeated ID as well.

When the host is re-powered, the system will automatically detect that whether the ID is repeated.

2、 the scanning unit

Select the scanning unit to display system state of conference unit, including the number of system meeting units, the number of Chairman units, the

number of representative units and translation units.

2.1.5.4.4 microphone mode

1、the FIFO mode

Once the maximum number of speakers is reached, the first opened microphone will be switched off by the newly pop-up representative units.

2、 the NORMAL mode

If the limit of maximum number of speakers is reached and other representatives want to speak, automatically enter the waiting queue, the number of representatives waiting in the queue corresponds with the maximum number of speakers set in the system.

3、 FREE mode

Allow six representatives to speak, no wait.

4、 APPLY mode

The representative unit should obtain the approval from the Chairman or operator before speaking. The waiting number should be equal with the maximum number of speakers. Signing attendance and voting will shut down the microphone of representative units or make it wait for clear.

2.1.5.4.5 the maximum speech

Limit the number of representative speakers. It can set 1/2/4/6 representative units to be opened simultaniously, the corresponding number of the presidential spokesperson is 7/6/4/2. The entire system could activate utmost 8 microphones at the same time.

2.1.5.4.6 translation settings

Translation settings mainly deal with the total number of channels, channel languages and translation rooms.

The total number of channels: setting the total number of channels for translation units, up to 16 Channels.

Channel Languages: set a different language to each channel of the translation unit, to provide multiple choices of languages.

Translation rooms: set the number of translation room for translation units. More than one translation units can be placed in one translation room. As long as one translation unit microphone is open in the translation room, the speakers of other translation units will be closed in the same room.

The setup steps of translation room:

Once conferencing systems finish connecting,

open the power supply of the conference host, select the "translation set", then the “translation room set ", then “start setting”, the display shows as follows:

Press the front panel "ENTER" button to confirm, " ENTER " button light flashes once,, all translation units display its current number of translation rooms, as follows:

Rotate "SELECT OUT" knob of the translation unit, the translation unit screen will display the number of translation rooms one by one. Select the desired translation room, press direction key “▶” on host panel to choose “ end setting”, and re-press" ENTER "key to confirm setting, the setup of translation room number is completed.

Lock channel:

lock channel is the channel to lock all the translation units. Select "translation set" “ translation room set " " lock channel ", the display shows as below

Press the front panel arrow keys “▶” to select " Lock Channel", Press "ENTER" key to confirm your selection, "ENTER" key light flashes once, the LCD screen displays as follows, said locking channel function has set up.

The "SELECT OUT" knob's function of setting the channel number of all translation units will be disabled.

2.1.5.4.7 language settings

Set the languages of the host and conference units. Host supports Chinese, English, Chinese Traditional, and representative units support English and Simplified Chinese.

2.1.5.4.8 Automatic channel

Set the automatic channel. Select "Open", if there is no translation in this channel, it will automatically put out original sound. If there is, the channel will put out the translation. While select"off", if there is no translation in this channel, there is no translation, no sound instead of automatically puting out the original.

2.1.5.4.9 Network settings

Set IP address, subnet coding and default gateway which are connected to the PC.

2.1.5.4.10 PA settings

Set the speaker switch for conference unit (excluding translation unit).

"Open", open all the speakers.

"Off", all the speakers are turned off.

2.1.6.4.11 audio settings

Set acoustic feedback suppression (AFC), noise cancellation (ANC), automatic gain (AGC).

2.1.5.4.12 Default settings

Set to restore the factory settings, all the parameters of the host will be restored to factory parameters.

2.1.5.4.13 Version information

Display the version information of the host.

2.1.5.5 Operating examples of Panel buttons

Such as: set the system's IP address to 192.168.1.125.

The specific operation is as follows:

1、 press the direction button, "▶", select "Network Settings" item, the direction button light flashes by each press. The LCD screen displays the corresponding menu setting interface. The selection is successful;

2、press "ENTER" key to confirm the setting of this option, the button light flashes once, LCD screen displays the following;

3、press the "ENTER" key to determine the type of the parameter of "IP address", the button light flashes once, the LCD screen displays as follows;

4、enter the "IP address" parameter setting interface, as shown in Fig. there are four options, press the direction key "▶"to select the desired settings, that is, choose option 3, the button light flashes once by each press, and LCD will display correspondingly;

5、Press "ENTER" key to determine the parameters of this option, the button light flashes, the LCD screen displays as follows:

6、press the direction key "◀", set parameter 001 for "option 3". The button light flashes for each click, the LCD will display correspondingly;

7、the setting of "Option 3" is completed. Press "NETER" button to confirm, and then press the return key "MENU" to return to previous menu;

8、press the " "▶" " button, select "Option 4", the button light flashes once and the LCD screen displays the following:

9、press "ENTER" key to determine the parameters of this option, the button light flashes and the LCD screen displays the following:

10、press the direction key "▶" to set parameter 125 to "option 4 ", the button light flashes for each press, the LCD will display correspondingly;

11、press the "▶" key, select "OK" to save the parameters setting;

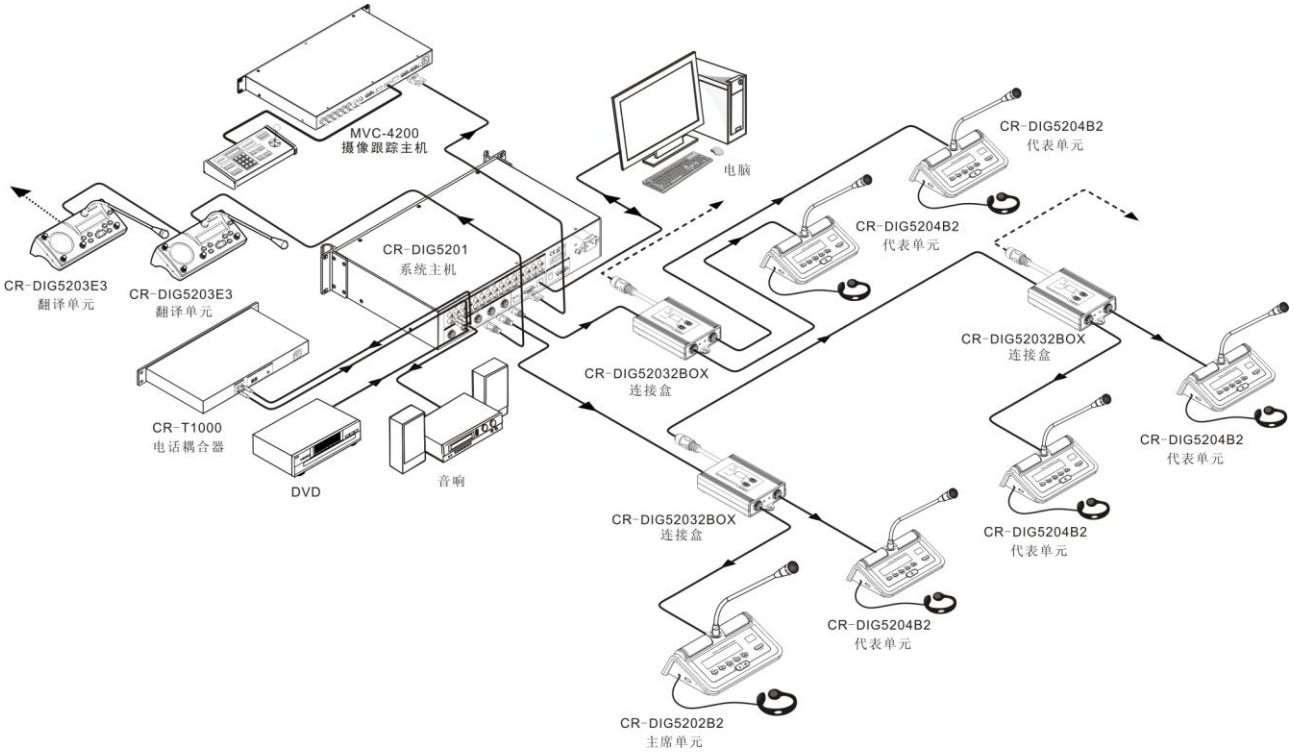
12、the IP address setup is completed, press "ENTER" key to confirm the settings. Then restarte the host, it will reconfigure the network in accordance with the set parameters.

Other functional operations of host panel buttons are similar to the settings of IP address.

2.1.6 technical parameters

Parameter	CR-DIG5201
Power Supply	110V/220V AC
Static power	12W
Maximum output power	350W
Frequency Response	20~20kHz
Signal-to-noise ratio (S/N)	＞80dB
Total harmonic distortion	＜0.05%
Channel Crosstalk	＞80dB
Weight	4kg
Dimensions	430L x 260W x88H (mm)
Color	dark gray

2.1.7 System connection diagram



摄像跟踪主机
Camera tracking host
翻译单元
translation unit
电话耦合器
Telephone coupler
系统主机
The system host
电脑
Computer
音响
Audio
连接盒
Connection box
代表单元
Delegate unit
主席单元
Chairman unit

2.2 Dual Backup host of conference system

the CR-DIG5200BK, dual backup host of conferencing system, is used to connect with full digital conference system host CR-DIG5201 to form a double hot backup mode, which can ensure that when system is running, any of a host fail, the system can normally run, the meeting will not be interrupted, the speaking and voting function can be continued.

2.2.1 features

◆ automatically save sign data, to ensure continuous attendance signing;

◆ automatically save microphone state to ensure continuous speaking;

◆ vote data is automatically saved so that it can continue to vote and ensure that vote data is correct;

◆ automatically save the camera tracking state ensure the continued camera tracking;

◆ once fail, the PC can continue to communicate, ensure data is not lost;

◆ automatically save translation status, ensuring simultaneous interpretation and continuous speaking

Allows you to manually switch the host into backup host and backup host into host, and vote meeting, attendance will not be interrupted;

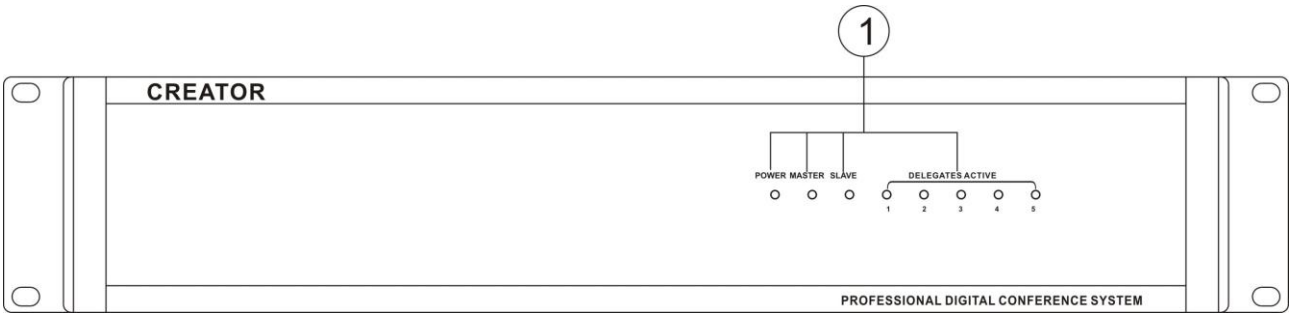
◆ PC software failure, backup PC software to save data and continue to work to ensure normal range of services;

◆ being breaked away from PC software, you can still double hot backup, to ensure meeting data is not lost;

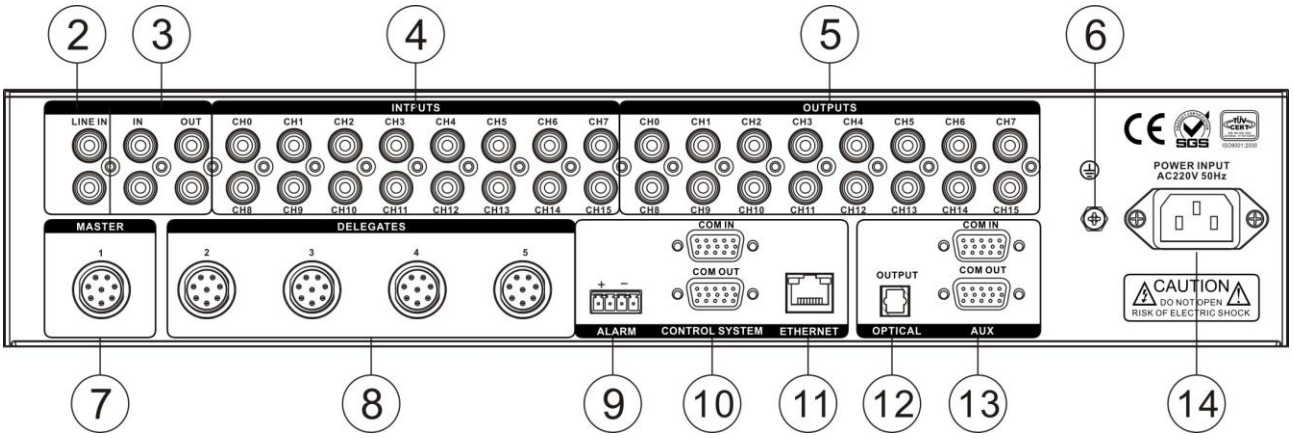
◆ backup host can be used independently, only lose the adjusting menu and the microphone separate output;
◆ the host can be installed on standard 19 inch rack, easy to store and custody.

2.2.2 panel description

CR-DIG5200BK front panel：



CR-DIG5200BK rear panel：



① **POWER - Power signal indicator**

MASTER - indicator flashing, suggests that backup host is in host mode, responsible for system work.

SLAVE - lights flashing, means that backup host is in backup mode, backup data.

DELEGATES ACTIVE - Conference unit communication indicator

② **LINE IN ——external device audio input**

Connect to the background music or the teleconference terminal output.

③ **IN OUT ——audio input / output port**

IN：connect to the host CR-DIG5201 OUT1/OUT2 port to form the dual hot-standby mode

OUT：connect to the PA system or recording device or teleconference input,

④ **INPUTS ——channel audio input**

15 +1 channel translator channel audio input for connecting the host OUTPUTS port to form the dual hot-standby mode

⑤ **OUTPUTS ——channel audio output**

15 +1 channel translator channel audio output for connecting the host of the infrared emission.

⑥ The **ground column**

⑦ **MASTER——Dual hot backup interface**

1-way hot-standby port connects with meeting unit interface of full digital conference system host CR-DIG5201 to form a double hot backup mode.

⑧ **DELEGATES——unit interface**

4-way ports can be connected to conference unit or junction box

⑨ **ALARM——fire alarm port**

Expansion interface, this interface can be used for fire alarm port

⑩ **CONTROL SYSTEM——RS-232 serial port**

COM IN：Connect to the conference host of CONTROL SYSTEM，backup the port

COM OUT：Connect to the host of CR-PGM II central control system or camera tracking host or backup host to realize the function of automatic camera tracking

⑪ **ETHERNET——the network port**

1 Ethernet port, connect to the computer to implement software management functions of the Conference

⑫ **OPTICAL——Optical output port**

1 optical output interface, corresponding to the audio digital output⑥ in the rear map.

⑬ **AUX——RS-232 serial port**

It is to extend the functionality，COM IN backup the conference host AUX port，COM OUT

output。

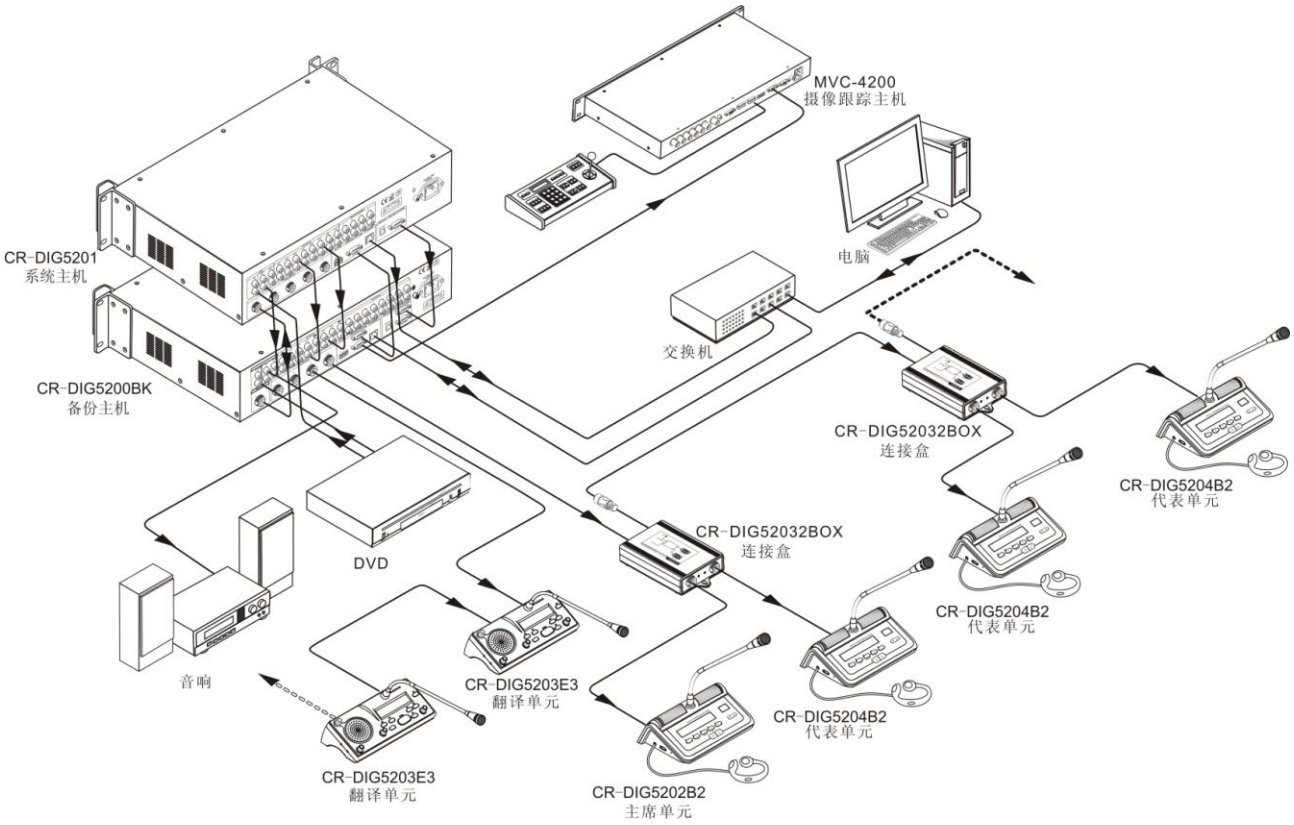
⑭ **POWER INPUT——sysyem power input port**

The sysyem power input is 110V/220V AC。

2.2.3 technical parameters

Parameter	CR-DIG5200BK
Power Supply	110V/220V AC
Frequency Response	20-20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic distortion	＜0.05%
Maximum output power	350W
Static power	12W
Dimensions	430L x 260W x88H (mm)
Color	dark gray

2.2.4 System connection diagram



系统主机
The system host
备份主机
The backup host
摄像跟踪主机
Camera tracking host
电脑
Computer
音响
Audio
交换机
Switch
翻译单元
Translation unit
连接盒
Connection box
代表单元
Delegate unit
主席单元
Chairman unit

Chapter 3 Conference system translation unit

The CR-DIG5203E3 translation unit is a fully functional translation unit, which can carry 15 +1 languages simultaneously, and realize the direct translation and indirect translation of these languages.

3.1 features

◆ full digital audio technology, in-built high-speed DSP processing;

◆ 20 ~ 20K perfect sound quality;

◆ blue 320x64 LCD screen;

◆ cardioid condenser pickup, with two-color indicator light, to speak in red;

◆ comes with 2 m connection cable;

◆ knob plug microphone pole;

◆ has a magnetic speaker, headphone jack and volume control knob;

◆ have indirect translation and direct translation function;

◆ internal calls;

◆ short message;

◆ coffee to apply;

◆ cough elimination;

◆ can be set to the operator;

◆ two sets of head-mounted microphone and headphone jack;

◆ speaker and headphone volume individually adjustable;

◆ support microphone pickup for head-mounted microphone and microphone pole;

◆ volume size Indicator;

◆ Input channel shortcut keys;

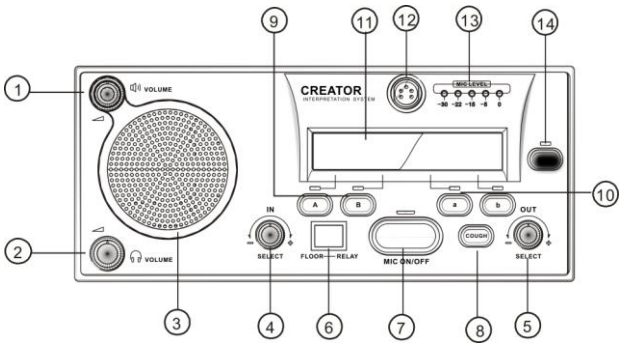
◆ output channel shortcuts;

◆ speech timing function;

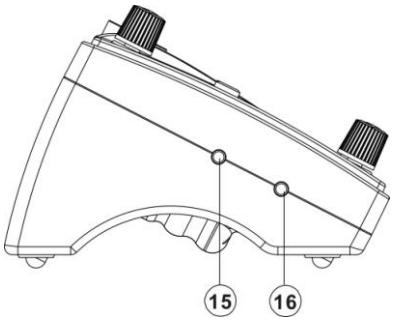
◆ the number of translation units is almost unlimited.

3.2 panel description

Front View:



Side view:



① speaker volume control knob.

② the headphones volume knob.

③ built-in speakers.

④ IN - input channel selection knob.

⑤ OUT - Output channel selection knob.

⑥ FLOOR-RELAY - Sounds and indirect translation switch.

⑦ MIC ON/OFF-- microphone switch.

⑧ COUGH - cough elimination button. Press and hold in translation status, a temporary interruption to prevent cough being passed, release to return to normal translation.

⑨ A, B –input channel shortcuts. Select an input channel and press A or B button for 3 seconds, the button becomes the channel shortcut key, you can quickly select input channel.

⑩ a, b, - output channel shortcuts. Select an

output channel, long press a or b for 3 seconds, the button becomes the shortcut key, you can quickly select output channel.

⑪LCD display - Resolution 320X64, the left shows the input channel number and multilingual information. The right displays output channel number and multilingual information.

⑫Microphone jack.

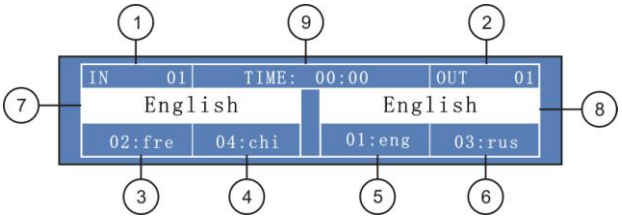
⑬Microphone / microphone volume indicator - microphone volume indicator indicates the volume level of current speech, with or without translation voice.

⑭CALL - multi-function button. Long press this button to enter setup mode interface. You can set the corresponding relations of languages and channels, switch on electricity and press the button long for the switch of operator and translation unit.

⑮Microphone jack.

⑯Headphone jack.

3.3 Descriptions of panel display



① input channel indication.

② output channel instructions.

③ the channel and multilingual instructions corresponding to input channel shortcut key A.

④ the channel and multilingual instructions corresponding to input channel shortcut key B

⑤ the channel and multilingual instructions corresponding to output channel shortcut key a.

⑥ the channel and multilingual instructions corresponding to output channel shortcut key b .

⑦ input channels languages.

⑧ output channels languages.

⑨ speech timing, maximum timing for 99 minutes 59 seconds long.

Services:

In the conference mode, press the number keyCALL" button to enter the service menu, which can offer language switch, intercom, tea applications and viewing the short message

Press "A" key, enter internal call.

Press "B" key to enter the tea applications.

Press "a" key to view short messages.

Press "b" key to return to the previous menu.

3.4 Operator

Translation unit can be set to the operator unit, for the convenience of intercom management. Translation unit is set to operator as follows:

Before power translation unit, press and hold the translation unit "CALL" button, release the button until operator set, translation unit is set to operator. The operator can be set to translation unit in the same way.

Operator is usually installed in management room to monitor conference translation channels, true voice, the whole hall intercom.

Operator LCD displays as follows:

When internal calls applies, the operator translation unit LCD display shows as below

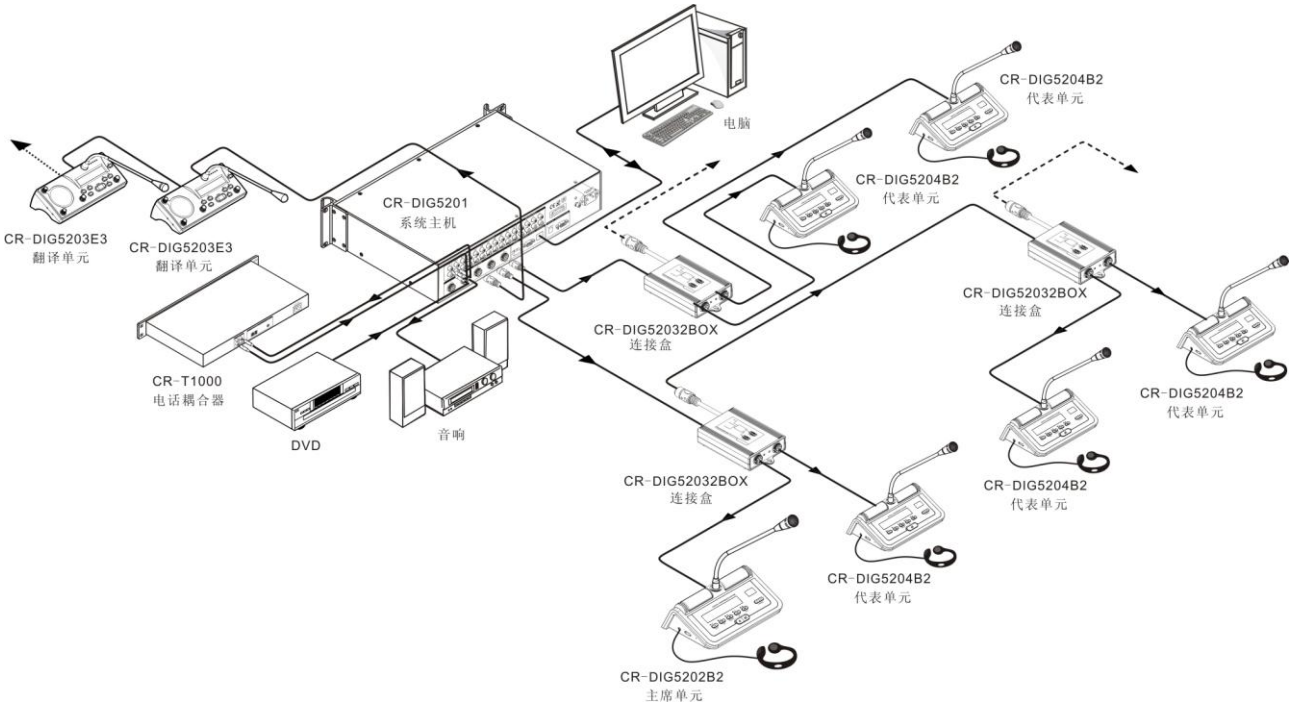
Press "Agree" button, the call begins, the LCD display shows as below:

Press "EXit" button to finish the call and quit,

3.5 technical parameters

Parameter	CR-DIG5203E3
Power Supply	The host power or DC24V input
Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic distortion	＜0.05%
Power consumption	1.8W
Microphone parameters microphone core type Sensitivity Frequency response Input impedance	 Condenser cardioid unidirectional -46 dBV/pa 20~20KHZ 2.2K
Speaker	2W
Headphone output Headphone loads	 ＞8Ω
Headphone volume	10mW
Display Control Display	320X64lattice (blue white)
Unit interface	8 core aerial head
Dimensions (mm)	290LX128WX86.6H
Color	dark gray

3.6 System connection diagram



翻译单元
translation unit
电话耦合器
Telephone coupler
系统主机
The system host
电脑
Computer
音响
Audio
连接盒
Connection box
代表单元
Delegate unit
主席单元
Chairman unit

Chapter 4 Conference system speech unit

CREATOR full digital conference speech unit is a 16-channel cable simultaneous discussion unit with desktop and embedded options, set speak, vote, key sign functions into one. Users can manually select to listen to any channel with simple operation. It supports the LCD to display channel number, has built-in speaker and headphone jack. Other features like clear sound, volume size adjustable, DSP processing technology all leads to clear opacity of speakers' sound.

4.1 Product classification

Appearance	Model	Product Features
	built-in microphone LCD speaking and voting unit: CR-DIG5202A2 chairman speech unit CR-DIG5204A2 delegate speech unit	Desktop The built-in microphone Built in speaker High sensitivity Speak, voting, channel selection 320*64LCD interface The 320*64LCD name diplayer
	VFD speaking and voting unit: CR-DIG5202B2 chairman speech unit CR-DIG5204B2 delegate speech unit	Desktop The built-in speaker Speak Vote channel selection 320*64LCD interface The 320*64LCD name displayer

	Touch type speaking and voting unit： CR-DIG5202E2chairman speech unit CR-DIG5204E2delegate speech unit	Desktop No speaker Speak Vote No channel selection 160*20LCD interface No name displayer Touch key

Appearance	Name and Model	Product Features
	Simple type speaking and voting unit： CR-DIG5202D2chairman speech unit CR-DIG5204D2delegate speech unit	Desktop No speaker Speak Vote No channel selection 160*20LCD interface No name displayer
	Embedded unit： CR-DIG5202C1chairman speech unit CR-DIG5204C1delegate speech unit	Embedded installation No speaker Speak No vote No Channel selection No LCD user interface No name displayer Touch buttons can be combine with any embedded unit of the series full digital conference system
	Embedded unit： CR-DIG5202C2 chairman vote unit CR-DIG5204C21delegate vote unit	Embedded installation No speaker No Speak vote No Channel selection 320*64LCD interface No name displayer Touch buttons

		can be combine with any embedded unit of the series all digital conference system
	Embedded unit CR-DIG5206CH channel selection unit	Embedded installation No speaker,No Speak,No vote,No Name displayer, No LCD user interface Channel selection Touch buttons can be combine with any embedded unit of the series full digital conference system

Appearance	Name and Model	Product Features
	Embedded unit CR-DIG5207SP 扬声器单元	Embedded installation Speaker No Speak No vote No channel selection No LCD user interface No name displayer can be combine with embedded speech unit
	VFD display unit： CR-DIG5205DS enhanced edition CR-DIG5205DS-S simple edition	Desktop No speaker No Speak No vote No channel selection 320*64LCD user interface 256*64Name displayer Touch buttons can be combine with any no table card conference unit

4.2 CR-DIG5202/4A2 speech unit

CR-DIG5202/4A2 speech unit is a multi-function integrated hands-free microphone LCDspeaking and voting unit. it sets discussions, sign, vote, table display, simultaneous interpretation into one. The built-in high fidelity speaker is to meet the needs of small venue PA.

4.2.1 Features

◆ Name dispayer , 320X64LCD for identity information display, support the name, posts scroll off display or a separate display. support text adaptive amplification, to provide the best visual effects, support 8 characters, 16 letters of

the alphabet, Russian and Japanese languages in the maximum;

◆ support all electronic nameplates of the entire system scroll off display synchronically;

◆ resolve uncommon word display problems of Chinese characters;

◆ Support PC software or insert IC card electronic nameplate display;

◆ high bandwidth to transmit information, the PC software can complete about 1000 unit electronic nameplate display content delivery in one second;

◆ Built-in high sensitivity microphone;

◆ support contactless IC card sign and automatically obtain representation;

◆ support 15 +1 simultaneous interpretation;

◆ supports three vote ways:
A) vote: in favor of / abstain / against
B) the manner of election / survey method: 1/2/3/4/5;
C) responds / Review Mode: --/-/0 / + / +;

◆ Chairman unit has priority to shut down the speaking unit;

◆ Chairman Unit has the function of initiating vote, and ending the voting;

◆ Chairman unit can initiate three key vote (in favor / abstain / against) to end vote;

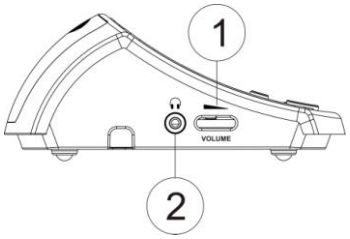
◆ 320X64 screen displays microphone number, sign results, voting results clearly;

◆ provide coffee application, short message viewing, short message indicating sound, intercom and other services;

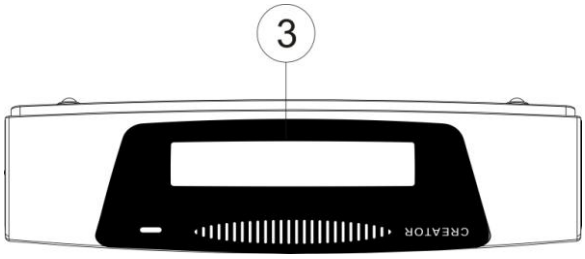
◆ Support Chinese and English.

4.2.2 panel description

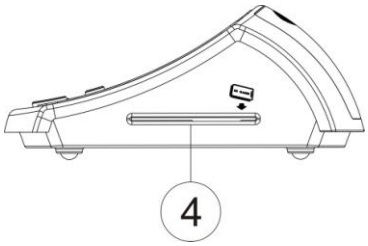
CR-DIG5202/4A2side view:



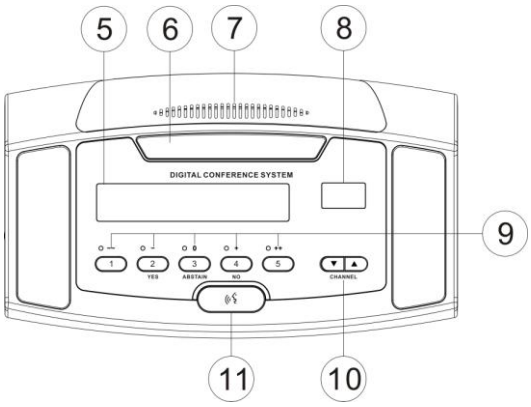
CR-DIG5202/4A2side view:



CR-DIG5202/4A2side view:



CR-DIG5204A2front view:



① volume control knob.

② headphone jack.
③ The LCD screen (320 * 64). Support 8 Chinese characters and 16 English letters in the maximum.
④ IC card slot.
⑤ The 320x64 LCD display, can display operating information.
⑥ flat-panel microphone
⑦ vent. Do not place hands on top of it when you are speaking.
⑧ channel selection display (support for display 00-15).
⑨ multifunctional vote button:
- Meeting voting, numbers 2,3,4, respectively stands for in favor of, waiver, opposed.
- The Conference election, numbers 1-5 keys on behalf of different candidates.
- Conference rating, numbers 1-5 keys represent levels of, -, -, 0, +, + +.
⑩ channel selection key.
⑪ microphone switch, Chairman' priority switch.

Long press the chairman unit microphone key for three seconds, close all open microphones of delegate speech unit.

4.2.3 technical parameters

Parameter	CR-DIG5202/04A2
Power Supply	The host power
Frequency Response	20-20KHZ
Channel Crosstalk	＞80dB
Microphone parameters	
microphone core type	Condenser cardioid unidirectional
Sensitivity	-46dBV/pa
Frequency Response	20-20KHZ
Input impedance	2.2K
Speaker	2W
Signal-to-noise ratio (S/N)	＞80dB
Headphone output	
Headphone loads	＞8Ω
Headphone volume	10mW
Display	
Control Display	320X64lattice (blue white)
Card tables Display	320X64lattice (blue white)
Total harmonic	＜0.05%
Maximum power	2.2W
Unit interface	8 core aerial head
Dimensions (mm)	255.7LX156.3WX67.3H
Color	Silver

4.3 CR-DIG5202/4B2 speech unit

CR-DIG5202/4B2 speech unit sets discussions, sign, vote, table display, simultaneous interpretation and other functions into one, the built-in high fidelity cylindrical speakers can meet needs of the venue PA.

4.3.1 Features

◆ Name displayer, 256X64VFD, used for identity information display, support name, posts scroll off display or a separate display, support adaptive zoom, red text and white character to provide the best visual effect, support 8 characters, 16 letters of the alphabet, Russian and Japanese languages at the maximum;

◆ support all electronic nameplates of the entire system to scroll off synchronically;

◆ resolve uncommon word display problems of Chinese characters;

Support PC software or insert IC card electronic nameplate display;

◆ high bandwidth to transmit information, the PC software can complete about 1000 unit electronic nameplate display content delivery in one second;

◆ Built-in high sensitivity microphone;

◆ support contactless IC card sign and automatically obtain representation;

◆ support 15 +1 simultaneous interpretation;

◆ supports three vote ways:
A) vote: in favor of / abstain / against
B) the manner of election / survey method: 1/2/3/4/5;
C) responds / Review Mode: --/-/0 / + / +;

◆ Chairman unit has priority to shut down the speaking unit;

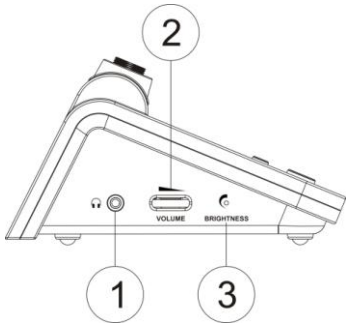
◆ Chairman Unit has the function of initiating vote, and ending the voting;

◆ Chairman unit can initiate three key vote (in favor / abstain / against) to end vote;

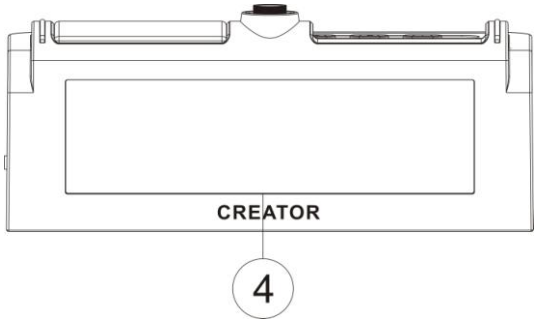
◆ 320X64 screen displays microphone number, sign results, voting results clearly;

◆ provide coffee application, short message viewing, short message indicating sound, intercom and other services;

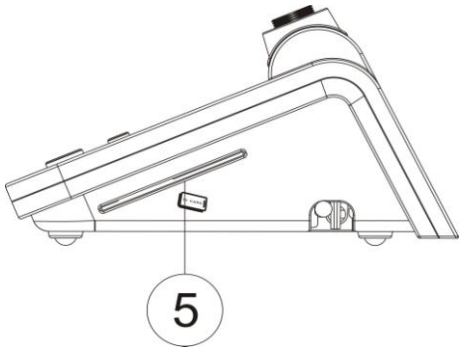
◆ Support Chinese and English.



CR-DIG5202/4B2side view：



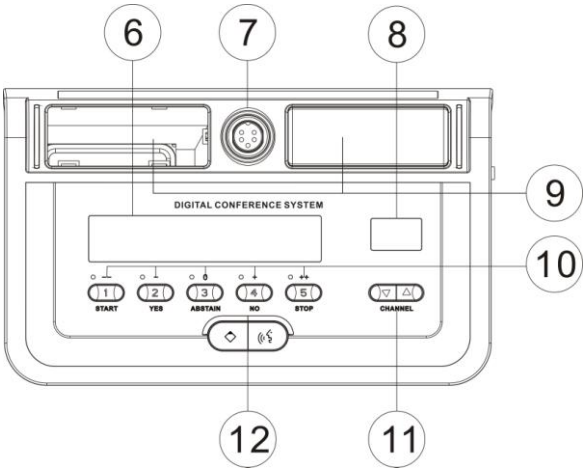
CR-DIG5202/4B2side view：



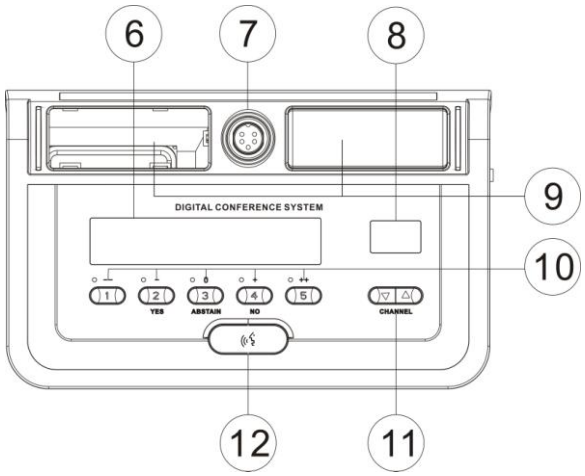
CR-DIG5202B2front view：

4.3.2 panel description

CR-DIG5202/4B2side view：



CR-DIG5204B2front view：



① headphone jack.

②volume adjust knob.

③ The VFD display brightness adjustment, adjusting to the "MIN" direction gets darker, adjusting to "MAX" direction gets brighter.

④ The 256x64 dot matrix display can display names, titles and other information.

⑤ IC card slot - insert IC card, read information. IC card can be displayed on VFD screen, thus play IC card sign function at the same time.

⑥ The 320x64 LCD display, can display operating information.

⑦ microphone interface.

⑧ channel selection display (00-15).

⑨ speaker.

⑩ multifunctional vote button

- Meeting voting, numbers 2,3,4, respectively stands for in favor of, waiver, opposed.
- The Conference election, numbers 1-5 keys on behalf of different candidates.
- Conference rating, numbers 1-5 keys represent levels of, -, -, 0, +, + +.

⑪ Channel selection buttons.

⑫ Microphone button priority key

Long press the chairman unit microphone key for three seconds, close all opened delegate speech unit.

4.3.3 technical parameters

Parameter	CR-DIG5202/04B2
Power Supply	The host power or DC 24V input
Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic	＜0.05%
Maximum power	7W
Microphone parameters	
microphone core type	Condenser cardioid unidirectional
Sensitivity	-46dBV/pa
Frequency Response	20~20KHZ

Input impedance	2.2K
Speaker	2W
Headphone output Headphone loads Headphone volume	＞8Ω 10mW
Display Control Display Card tables Display	320X64lattice (blue white) 320X64lattice (blue white)
Unit interface	8 core aerial head
Dimensions (mm)	230.8LX160.1WX69.4H
Color	dark grey

4.4 CR-DIG5202/4E2 speech unit

CR-DIG5202/4E2 is a full digital conference system touch speaking and voting unit, set discussion, attendance, voting and other functions into one.

4.4.1 Features

◆ Chairman unit has priority to shut down the speaking unit;

◆ Chairman Unit has the function of initiating vote, and ending the voting;

◆ Chairman unit can initiate three key vote (in favor / abstain / against) to end vote;

◆ 160X20 dot matrix displays sign results, voting results;

◆ Support English display;

◆ supports three vote ways:

A) method of voting: agree / abstain / against;

B) the manner of election / survey method: 1/2/3/4/5;

C) responds / Review Mode: --/-/0 / + / + +.

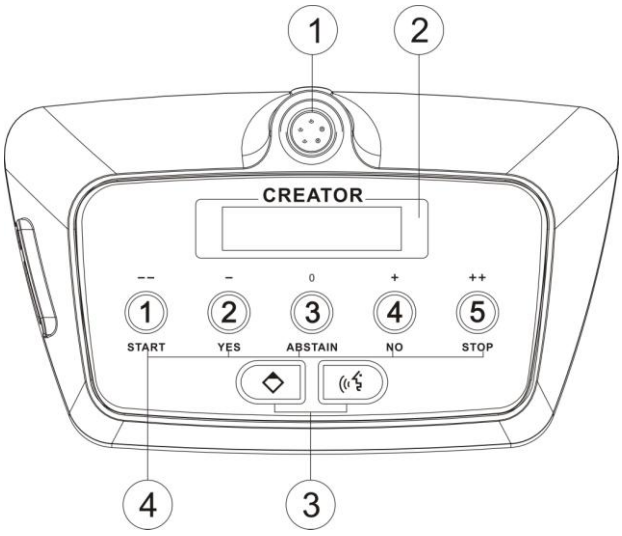
◆ no channel selection, no speakers, only can listen to acoustic channel language;

◆ capacitive heart-shaped directional microphone, with two-tone prompts circle;

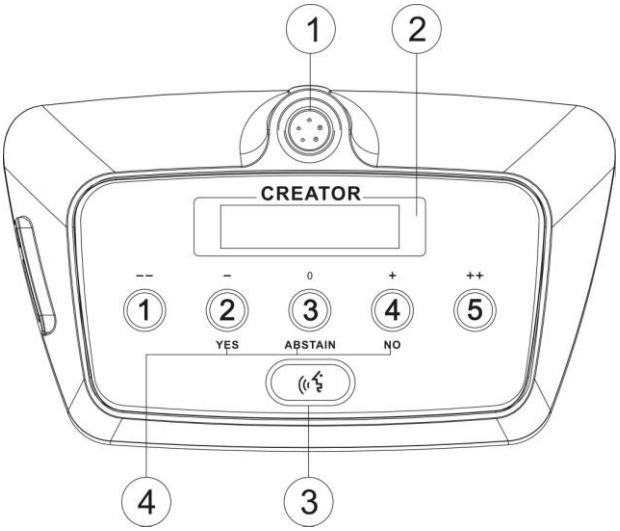
◆ capacitive touch button, no mechanical sound, long life and waterproof.

4.4.2 panel description

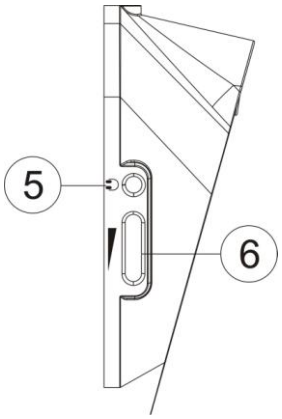
CR-DIG5202E2Top view：



CR-DIG5204E2Top view：



CR-DIG5202/04E2side view：



① microphone interface.

② The 160x20 LCD display, can display operating information.

③ microphone button, Chairman priority button. Press the Chairman unit priority button for 3 seconds, close all opened delegate speech unit.

④ multifunctional vote button

- Meeting voting, numbers 2,3,4, respectively stands for in favor of, waiver, opposed.
- The Conference election, numbers 1-5 keys on behalf of different candidates.
- Conference rating, numbers 1-5 keys represent levels of, -, -, 0, +, + +.

⑤ headphone jack.

⑥ volume knob.

4.4.3 technical parameters

Parameter	CR-DIG5202/04E2
Power Supply	The host power
Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Power consumption	1.5W
Display Control Display	160X20lattice (blue white)
Unit interface	8 core aerial head
Dimensions (mm)	71.7LX41.6WX15.7H
Color	dark grey

4.5 CR-DIG5202/4D2 Speech unit

CR-DIG5202/4D2 is a low cost digital speech unit, set discussions, attendance, voting and other functions into one.

4.5.1 Features

◆ Chairman unit has priority to shut down the speaking unit;

◆ Chairman Unit has the function of initiating sign, and ending the sign;

◆ Chairman unit can initiate three key vote (in favor / abstain / against) to end vote;

◆ 160X20 dot matrix displays sign results, voting results; English display

◆ supports three vote ways:

A) method of voting: agree / abstain / against;

B) the manner of election / survey method: 1/2/3/4/5;

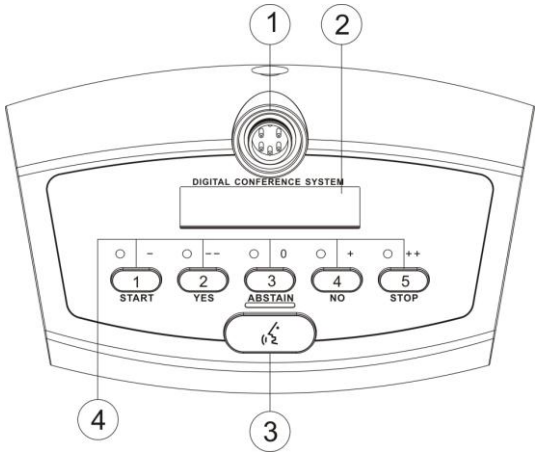
C) responds / Review Mode: --/-/0 / + / + +.

◆ capacitive heart-shaped directional microphone, with two-tone prompts circle;

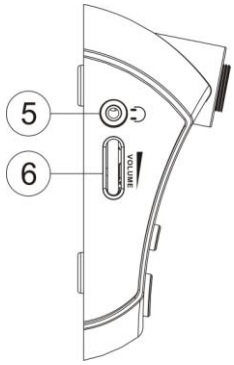
◆ no channel selection, no speakers, only can listen to acoustic channel language.

4.5.2 panel description

CR-DIG5202D2Top view：



CR-DIG5202/4D2side view：



① microphone interface.

② The 160x20 LCD display, can display operating information.

③ microphone switch, Chairman priority switch.

Press the chairman unit microphone key for three seconds, close all opened delegate speech unit.

④ multifunctional vote button

- Meeting voting, numbers 2,3,4, respectively stands for in favor of, waiver, opposed.
- The Conference election, numbers 1-5 keys on behalf of different candidates.
- Conference rating, numbers 1-5 keys represent levels of, -, -, 0, +, + +.

⑤ headphone jack.

⑥ volume knob.

4.5.3 technical parameters

Parameter	CR-DIG5202/04D2
Power Supply	The host power
Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic	＜0.05%
Power consumption	1.6W
Microphone parameters microphone core type Sensitivity Frequency Response Input impedance	 Condenser cardioid unidirectional -46dBV/pa 20~20KHZ 2.2K
Headphone output	＞8Ω 10mW

Headphone loads Headphone volume	
Display Control Display	160X20lattice (blue white)
Unit interface	8 core aerial head
Dimensions (mm)	189.5LX93WX42.8H
Color	dark grey

4.6 Embedded unit

Full digital conference system embedded unit can be used separately or in combination according to different application needs. The touch button design is elegant in appearance.

CR-DIG5202/4C1 is embedded pure speech unit;

CR-DIG5202/4C2 is embedded pure vote unit;

CR-DIG5206CH is embedded channel selection unit for wired simultaneous interpretation function;

CR-DIG5207SP is embedded speaker unit to meet the needs of the venue PA.

4.6.1 Features

◆ Chairman unit has priority functions, can turn off all the speaking units;

◆ Chairman unit has the functions of initiating sign and ending sign;

◆ Chairman unit can initiate three key vote (in favor / abstain / against) and end the vote;

◆ 320X64 screen displays microphone number, the results of sign and the voting;

◆ Support Chinese and English display. Once powered, it automatically chooses the last modified language of unit machine;

◆ when embedded channel selection units are used, the number is unlimited;

◆ capacitive touch buttons, no mechanical key sound, longer life, waterproof design;

◆ support 15 + 1 languages simultaneous interpretation;

◆ Can be used in combination.

◆ supports three vote ways:

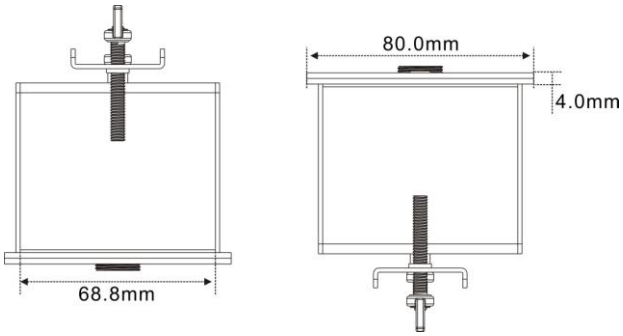
A) method of voting: agree / abstain / against;

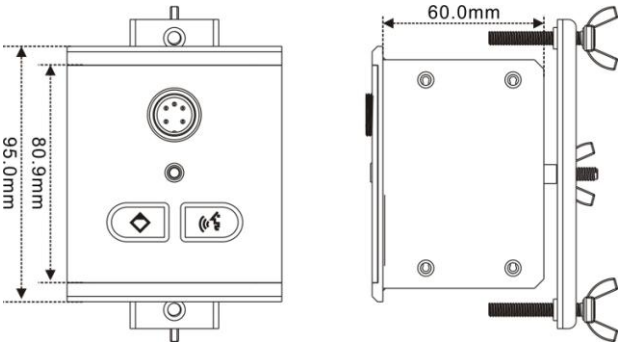
B) the manner of election / survey method: 1/2/3/4/5;

C) responds / Review Mode: --/-/0 / + / + +.

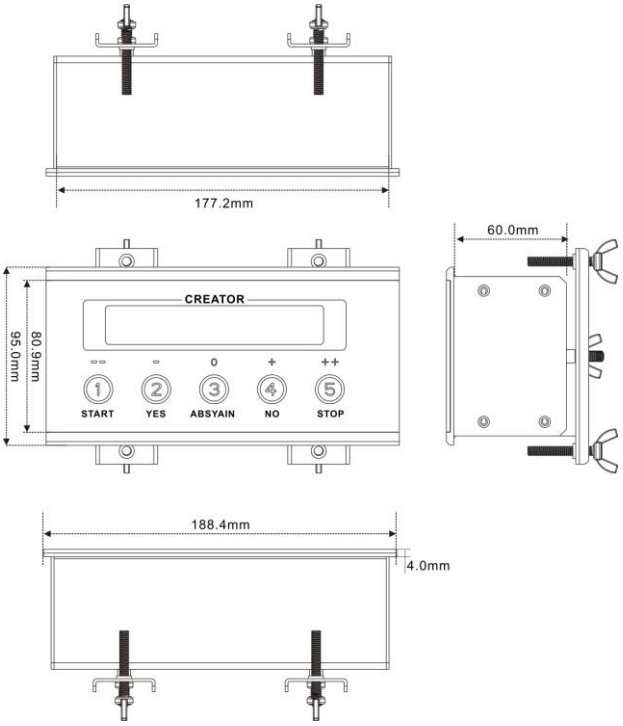
4.6.2 Appearance size chart

CR-DIG5202/4C1, CR-DIG5206CH and CR-DIG5207SP have the same appearance size, as below:





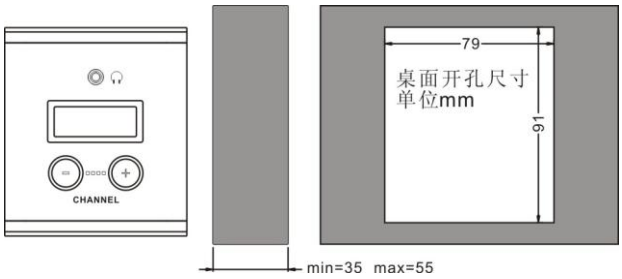
CR-DIG5202/4C2 appearance size chart：



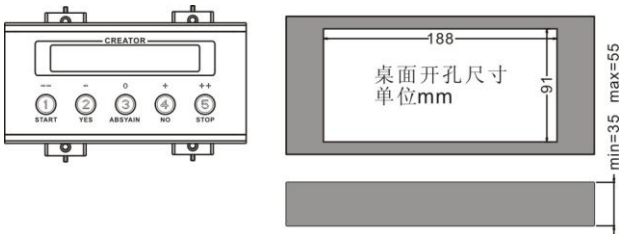
4.6.3 Installation instructions

All digital conference system embedded units adopt desktop installation, directly open the desktop according to embedded units' size. Connect the signal lines and power lines to the host, then fix the embedded units on the desktop with the supplied screws, nuts, mounting bracket and wing nut. The size diagram as below:

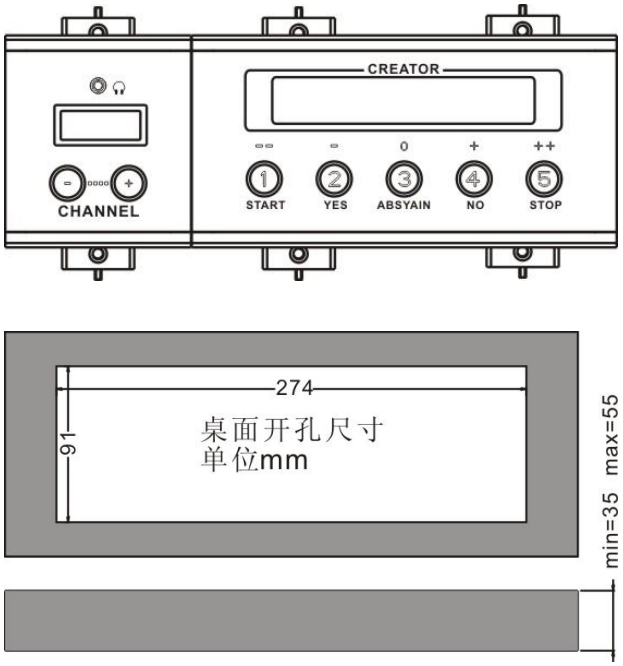
CR-DIG5202/4C1、CR-DIG5206CH and CR-DIG5207SP：



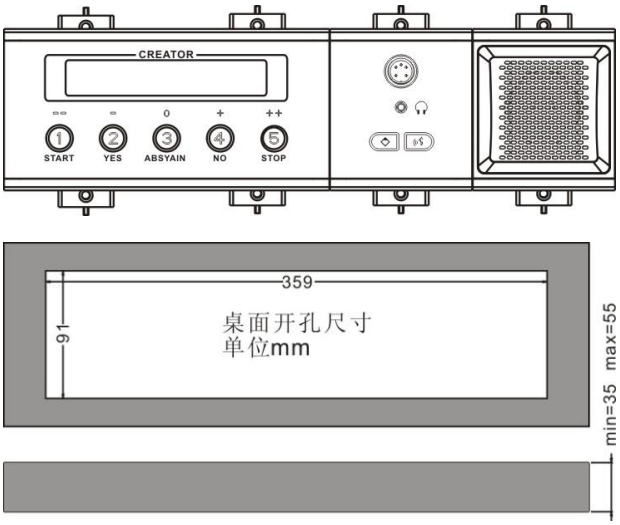
CR-DIG5202/4C2：



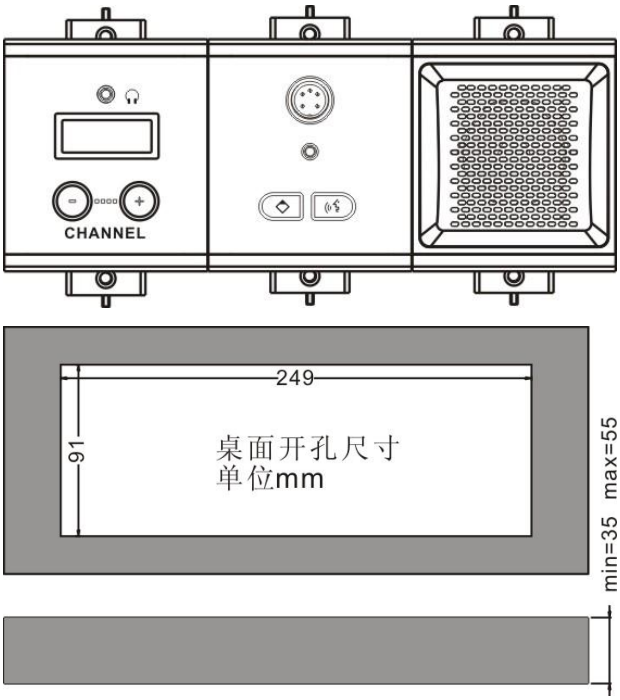
Combine CR-DIG5206CH with CR-DIG5202/4C2



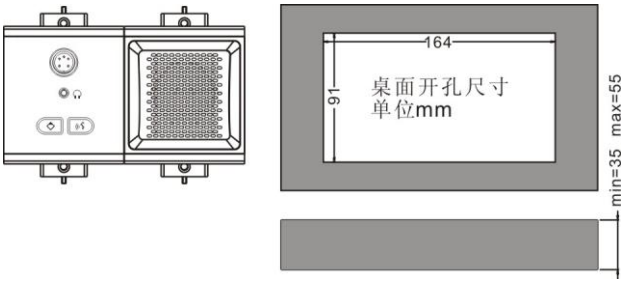
The combination of CR-DIG5206CH 、CR-DIG5207SP and CR-DIG5202/4C2：



The combination of CR-DIG5206CH, CR-DIG5202/4C1 and CR-DIG5207SP

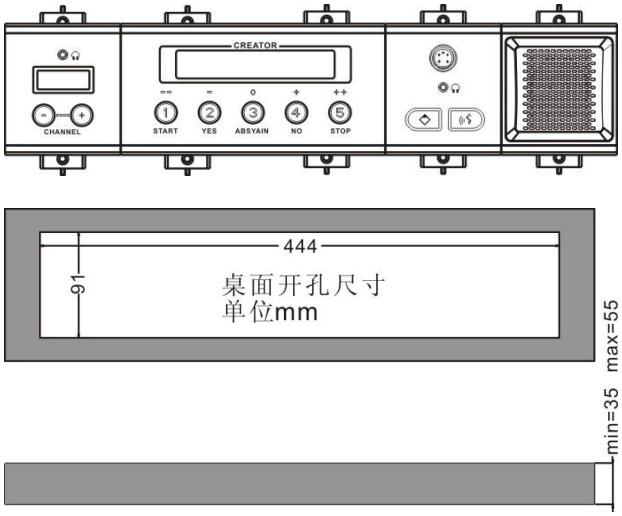


The combination of CR-DIG5202/4C1and CR-DIG5207SP



CR-DIG5202/4C1、CR-DIG5206CH、

The combination of CR-DIG5207SPand CR-DIG5202/4C2;



Installation steps:

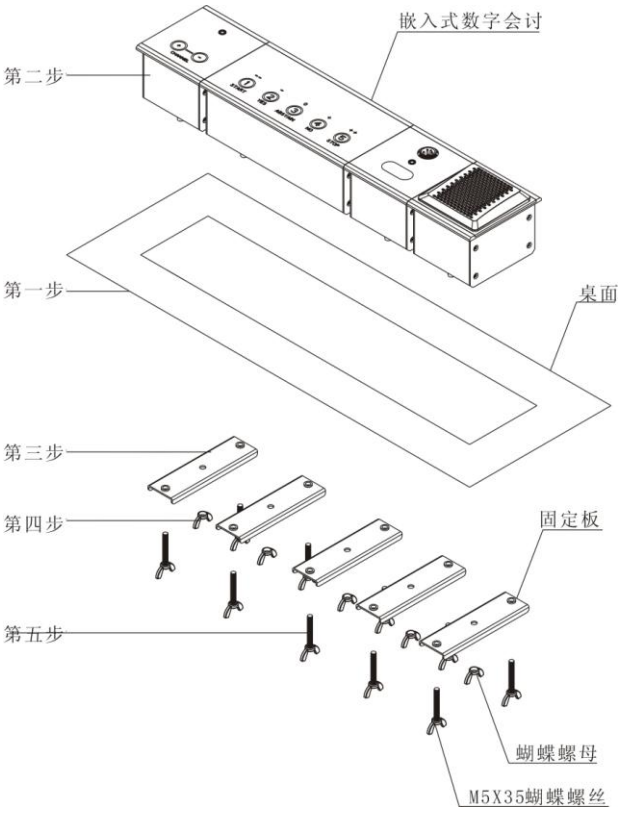
1, open the desktop corresponding to the size;

2 install the embedded digital conference machine into the opened square hole of desktop;

3, install the fixing plate on pressure riveting screw under the machine;

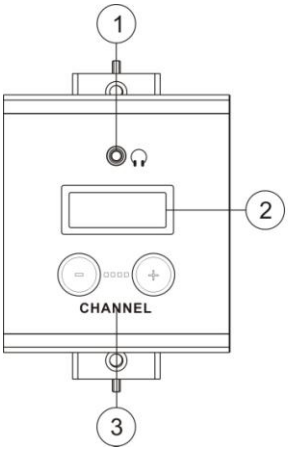
4, fix the fixing plate with butterfly nut;

5, making M5X35 the butterfly screws go through the fixing plate to lock with desktop, so as to fix the equipment. As below:

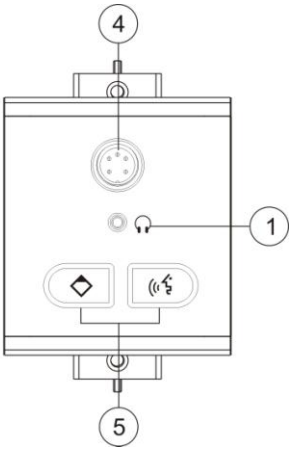


4.6.4 panel description

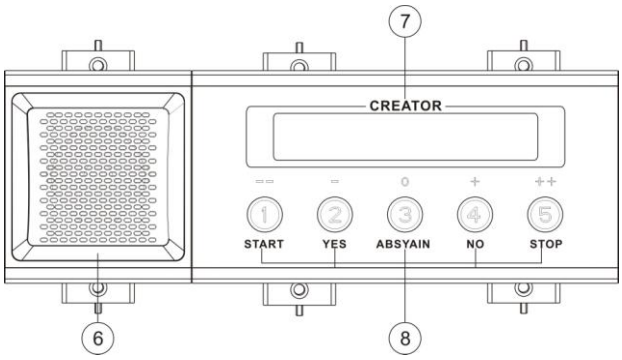
CR-DIG5206CH



CR-DIG5202/4C1



CR-DIG5207SP



CR-DIG5202/4C2

① headphone jack.

② channel selection display (00-15).

③ Channel Select button.

④ microphone interface.

⑤ microphone switch, Chairman priority switch.
Press the Chairman unit priority button for 3 seconds, close all opened delegate speech units.

⑥ speaker.

⑦ LCD display can display operating information.

⑧ multifunction vote button:

- Meeting voting, numbers 2,3,4, respectively stands for in favor of, waiver, opposed.
- The Conference election, figures 1-5 represent the different candidates.
- Assessment meeting, figures 1-5, respectively represents the level of -, -, 0, +, + +.

4.6.5 technical parameters

Parameter	CR-DIG5202/04C1
Power Supply	The host power

Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic	＜0.05%
Power consumption	1.1W
Microphone parameters microphone core type Sensitivity Frequency Response Input impedance	Condenser cardioid unidirectional -46dBV/pa 20~20KHZ 2.2K
Headphone output Headphone loads Headphone volume	＞8Ω 10mW
Unit interface	8 core aerial head
Dimensions (mm)	80LX95WX60H
Color	dark

Parameter	CR-DIG5202/04C2
Power Supply	The host power
Power consumption	1.5W
Display Control Display	320X64lattice (blue white)
Unit interface	8 core aerial head
Dimensions	188.4LX95WX60H
(mm)	
Color	dark

Parameter	CR-DIG5206CH
Power Supply	The host power
Frequency Response	20~20KHZ
Signal-to-noise ratio (S/N)	＞80dB
Channel Crosstalk	＞80dB
Total harmonic	＜0.05%
Power consumption	1.1W
Headphone output Headphone loads Headphone volume	＞8Ω 10mW
Unit interface	8 core aerial head
Dimensions (mm)	80LX95WX60H
Color	dark

Parameter	CR-DIG5207SP
Speaker	2W
Dimensions (mm)	80LX95WX60H
Color	dark

4.7 Examples of speech unit operations

The display operation interface, the interface function and method of operation of the speech units of full-digital conferencing systems are similar. We will choose the surface microphone units of chairman CR-DIG5202A2 and

delegate speech unitCR-DIG5204A2 to illustrate the speech unit display screen clearly.

Properly connect and start the system and conference unit, under the mode of the meeting, the Chairman units will display:

The buttons on the screen of Speech unit are corresponding to the buttons on the front panel of speech unit. During the operation, you can directly press the corresponding button on the panel of speech unit, such as:

'Launch the vote "corresponds to the number" 1 "key

Initiate the sign "corresponding number" 2 "key

"Service" corresponds to the number "5" key

Representative unit displays:

The following instructions will use chairman unit as an example to illustrate that chairman unit has a priority to speak and the function of initiating attendance and voting.

4.7.1 Launch sign in

4.7.1.1 Chairman launch sign in

Long press 'launched sign "key on the Chairman unit panel for 2 seconds, then microphone button lights of all speech units flash red, LCD display will show that you've entered the attendance mode.

Press microphone button or insert IC card unit to sign the attendance. The speech microphone key indicator flashes and then be in solid red state, means attendance is completed. 320X64 display will prompt the machine has signed in and the total number of signing. If microphone indicator is still flashing, that suggests the sign is not successful. Press microphone button to continue the signing. If IC card has inserted in speech unit before launching the sign, the unit will automatically sign when it is initiated.

Long press number key "5" of Chairman unit for 2 seconds, exit sign model and return to the conference mode.

The chairman unit display will show the following results:

The initiation of sign of PC is similar to the above. It can change the total number of sign.

4.7.2 Launch vote

4.7.2.1 Chairman launch vote

Chairman can only initiate three key voting, the default mode is the last time voting. Don't need to sign, three key vote.

Long press number key 1 of the Chairman unit for 2 seconds to initiate a vote. The corresponding indicator light of system Representative units 2, 3, 4 flashes red while LCD display shows voting status. 2,3,4 key indicators will be in solid red state and stop blinking, means vote is successful, LCD display prompts the successful votes. if the indicators keep flashing, indicating that vote was failed or did not vote. You should to press the key to vote.. Long press "5" key for 2 seconds, stop the vote, view voting results; and then long press "5" key 2 seconds to return to the meeting mode.

President initiates vote, the LCD screen displays the following:

If you choose "yes", the display shows:

If the ballot is proceeding, you can reselect even after voting;

if Chairman determines the voting time is up, as shown below, long press "Stop" button for 2 seconds to end the vote;

View poll results after the voting, the display will show voting results;

Press "Exit" button, then following figure appears, long press "Stop" button for 2 seconds to return to the conference mood.

4.7.2.2 PC launch vote

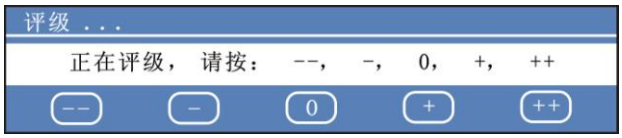
PC can launch five key electoral rating and 3 key vote.

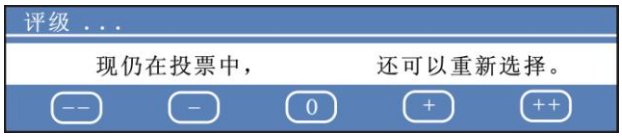
- meeting vote, numbers 2, 3, 4, respectively stands for in favor of, abstain and opposition.
- The Conference election, figures 1-5 represent the different candidates.
- Meeting assessment, figures 1-5, respectively stand for the level of -, -, 0, +, + +.

Election interface:

Voting end, view the election results:

Rating interface:





Voting procedures and precautions are similar with the "initiating the vote" of Chairman unit, please check a) The Chairman initiate vote.

4.7.3 microphone management

4.7.3.1 Speech mode

1、the FIFO mode

The largest number of speakers limit is reached, the first open microphone on behalf of unit later statement by the representative unit is switched off.

2、 the NORMAL mode

Reach the limit of maximum number of speakers and other representatives to speak, automatically enters the statement waiting queue, speak to the number of wait queue and set the maximum number of speakers.

3、 FREE mode

Allow six representatives to speak, no waiting for.

4、 APPLY mode

Representative unit should get the approval from Chairman or operator before speak. Without approval, microphone pole indicator is green.

4.7.3.2 Apply speech

Iin APPLY mode, Representative units press microphone button to apply to speak t, microphone pole lights are in solid green state. Chairman unit "1" key (corresponding to agree) and "3" key (corresponding to reject) indicators flash and indicate certain representative is appling for speaking. Chairman unit press number"1" key (agree) to approve speech application, then the application is successful. Press number "3" key (reject), Representative application is shut down. The chairman unit approves a Representative unit to speak by pressing the button once, following the "early in early out " principle.

As representative unit apply to speak, Chairman unit LCD displays as below:

4.7.3.4 Stop speech

long press priority button of Chairman Unit CR-DIG5202B2, the screen will display following diagram interface and close all speaking Representative unit, the number of speaking person is zero.

4.7.3.5 the biggest statements

The biggest statements of display is set by host menu, to set the maximum allowable number of representatives, not including the Chairman, to speak at the same time.

The system supports 8 microphones simultaneous at the maximum, the maximum number of speakers is 6, only two microphones of chairman unit can be opened at the same time.

4.7.3.6 Speeching

"Speeching" on the display stands for the number of speaking representative units, which does not include the number of speaking chairman units.

4.7.4 Services

In conference mode, press "service" key enter service menu, you can make internal calls, tea applications, language switch, view short messages.

4.7.4.1 language settings

Press "1" key to set language in English or Chinses temporarily.

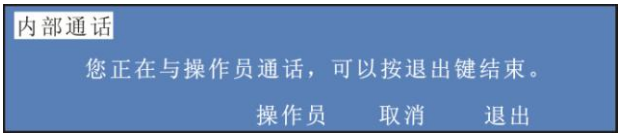
4.7.4.2 Intercom

Intercom allows secret call between the Chairman, the interpreter, conference units and the operator without affecting the normal meeting. You must use the headset to do internal calls properly, with speakers turned off.

Press "2" key to apply internal call. Unit machine display appears below interface:

If plug in your headphones, select operator, the interface of applying to operator prompts:

If operator agrees to the application, internal call is established, you can call, the following interface prompts:



If you do not plug in your headphones, select operator will prompt "Please insert headset call", only when your headphones pluged in can intercom function normally

4.7.4.3 Tea

Tea mainly provides tea service for the meeting staff. Meeting staff can apply tea service by conference unit.

Press "3" key to enter the "tea" service application interface:

Press "apply" button, the following interface prompts, indicates tea application sent successfully.

Press "Cancel" button to cancel the sent request. Press "Back" button to return to top menu. Once tea request is processed, tea service interface will prompt the following interface:

4.7.4.4 Message

View the Message, once message is received, you will hear indicating tone, select "Message" to see the content of short message, as following interface:

Support four short messages at the maximum. Once over four messages, the new message will cover the foremost one according to the sequence.

Representative unit

The main differences between Representative unit and Chairman Unit are:

Representative unit can not initiate sign, can not initiate voting, has no microphone priority. Other operations are consistent with Chairman units. Interface as below:

open the microphone interface

4.8 VFD display unit

CR-DIG5205DS、CR-DIG5205DS-S display unit provides functions like electronic nameplate, tea applications, message display, and so on.

4.8.1 features

◆ display unit 256X64 lattice display for identity information, support name, posts scroll off display or a separate display, support adaptive zoom, red text and white character to provide the best visual effect, support 8 characters, 16 letters of the alphabet, Russian and Japanese languages at the maximum;

◆ all display units of the whole system scroll off synchronically, high bandwidth to transmit information;

◆ resolve uncommon word display problems of Chinese characters;

◆ support PC software electronic nameplate display, high bandwidth to transmit information;

◆ PC software can complete about 1000 unit electronic nameplate display content delivery in one second;

◆ Message tea service;

◆ provide front and back display of electronic nameplate, be convenient for finding seat and identification;

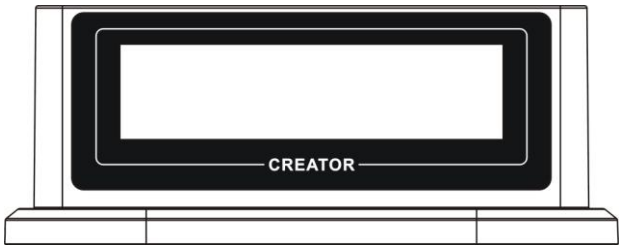
◆ high compatibility, can be used alone or with meeting units of DIG52 series which have no electronic nameplate display function.

◆ the CR -DIG5205DS-S is a simplified version, can only display names and positions, no short message, no tea application function, no front identity display.

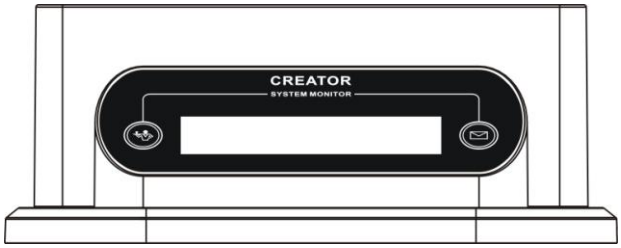
◆ CR-DIG5205DS is the enhanced version which can display names and positions, short message, tea applications, and front identity.

4.8.2 Descriptions of Appearance buttons

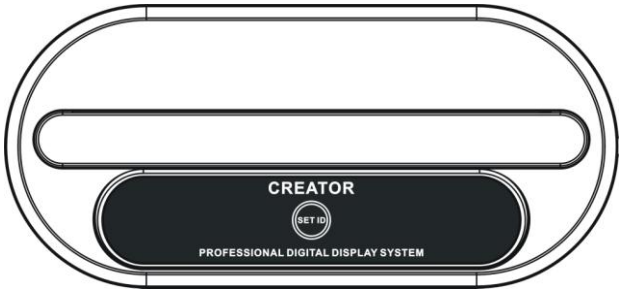
CR-DIG5205DS、CR-DIG5205DS-S front view：



CR-DIG5205DS back view：



CR-DIG5205DS-STop view：



tea application key

message key

SET ID ID Setting key

4.8.3 technical parameters

Parameter	CR-DIG5205DS CR-DIG5205DS-S
Power Supply	The host power
Power consumption	6W
Display Control Display Card tables Display	320X64lattice (blue white) 256X64 点阵（红底白字）
Unit interface	8 core aerial head

Dimensionmm	233.5LX120WX101H
Color	dark grey

4.9 VFD isplay unit management software

All digital conference system VFD display unit management software is amanagement software of CREATOR display unit. It is specially designed for separate or mixed display for name or position of electronic nameplate. It can send messages, do tea service, also can simultaneously manage multiple venues.

4.9.1 features

◆ support more than one venue management;

◆ modify or set the names and positions in single or multiple venues, support three modes of display: names or posts only, or mixed display of names and positions;

◆ Name and title display maximumly support 16 bytes, supports multiple languages;

◆ setting forbidden units and open units;

◆ automatic access to the failures of online unit or test unit;

◆ can import / export names, positions, seat numbers edited in Excel format.

4.9.2 Software interface and operating instructions

Install the ″Electronic table card display system” software correctly, double-click it, the main interface prompts as belows:

Interface is composed of “the venue management”, ″tea application list”, ″Send Message”.

4.9.2.1 venues management

Right-click the space of ″venues management”,the following dialog box prompts:

Add new venue: To add a new venue.
Backup data: backup data to prevent abnormal loss.
Import data: Import the edited file data.

Click the ″Add new venue”, enter the Setting dialog box to add a new venue:

Venue Name: For the convenience of management, an easy-to-remember name is preferable.

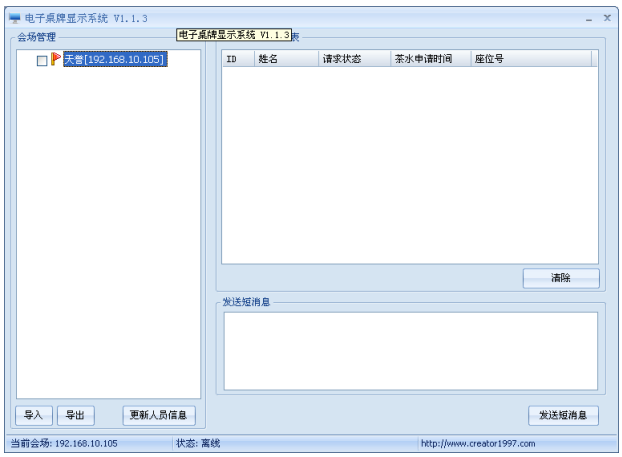
IP address: in a network, IP addresses cannot overlap.

Card tables Display: three options available: scroll off display, name only display, post only display.

Tea application: the setting of discuss unit's tea application switch.
Fill in correctly according to the parameter settings, click "OK" button

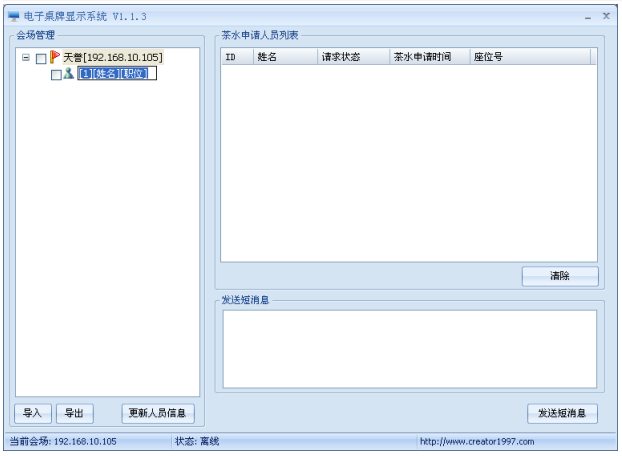
creat a new venue, as shown below:
New venue parameter settings:

newly created venue:



Upon completion of new venue, right-click on venue name and pops up the following dialog box:

Add staff: Add e-card tables show staff, add one person a time , enter the following interface:



Directly enter the desired ID number, name, position.

Delete venue: To delete the entire venue content.

Modify venue: to amend venue parameters, such as venue name, IP address, card tables, tea applications.

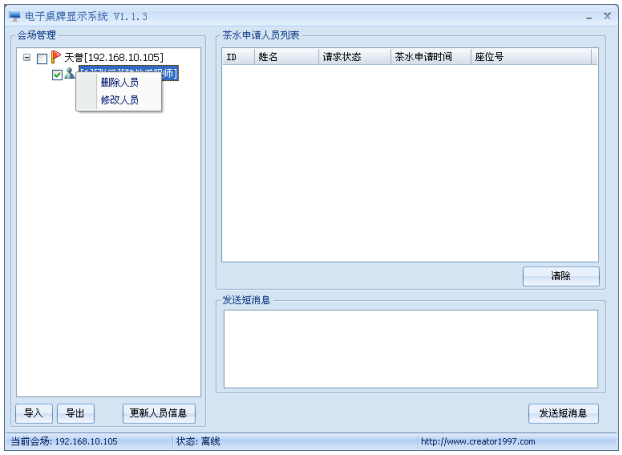
Connection: set up normal connection communication between the venue and system network. After click “Connect”, the corner of main interface will display the network status of the venue (offline / online).

Unit testing: when the venue is online, detect if card tables system is online.

Switching unit: set one or more discuss units disabled or enabled. Click to enter the dialog box:

Enter in the ID numbers of discuss units to open / close. Then select open / close.

In venue personnel management, right-click the “personnel name”, personnel management dialog will pop-up, such as:



Delete staff: To delete the current staff.

Modify staff: To modify the current personnel information.

There are three items just under ″venue management”,namely ″Import″, ″Export″, ″update personnel information.

Import: Import the names, positions, seat numbers edited in EXCEL format. EXCEL format editing shows as below:

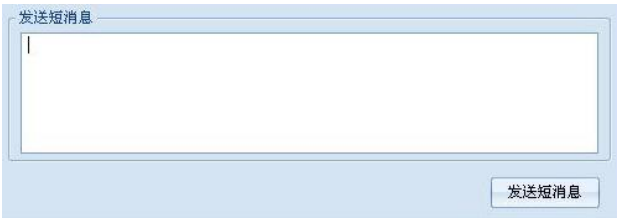
	A	B	C	D	E
1	ID	姓名	职位	座位号	
2	1	张三	软件工程师	第一排1号	
3	2	李四	软件工程师	第一排2号	
4	3	王五	电子工程师	第一排3号	
5					

Export: export current venue personnel information and save in EXCEL format.

Update personnel information: click this button when personnel information is incorrect or when there is a need to import new personnel information

4.9.2.2 Tea application personnel list

When discuss units apply tea, the tea application list will show the applicant’s information. As shown below:



Request processing is complete, right click the requester and choose "processed request" button.

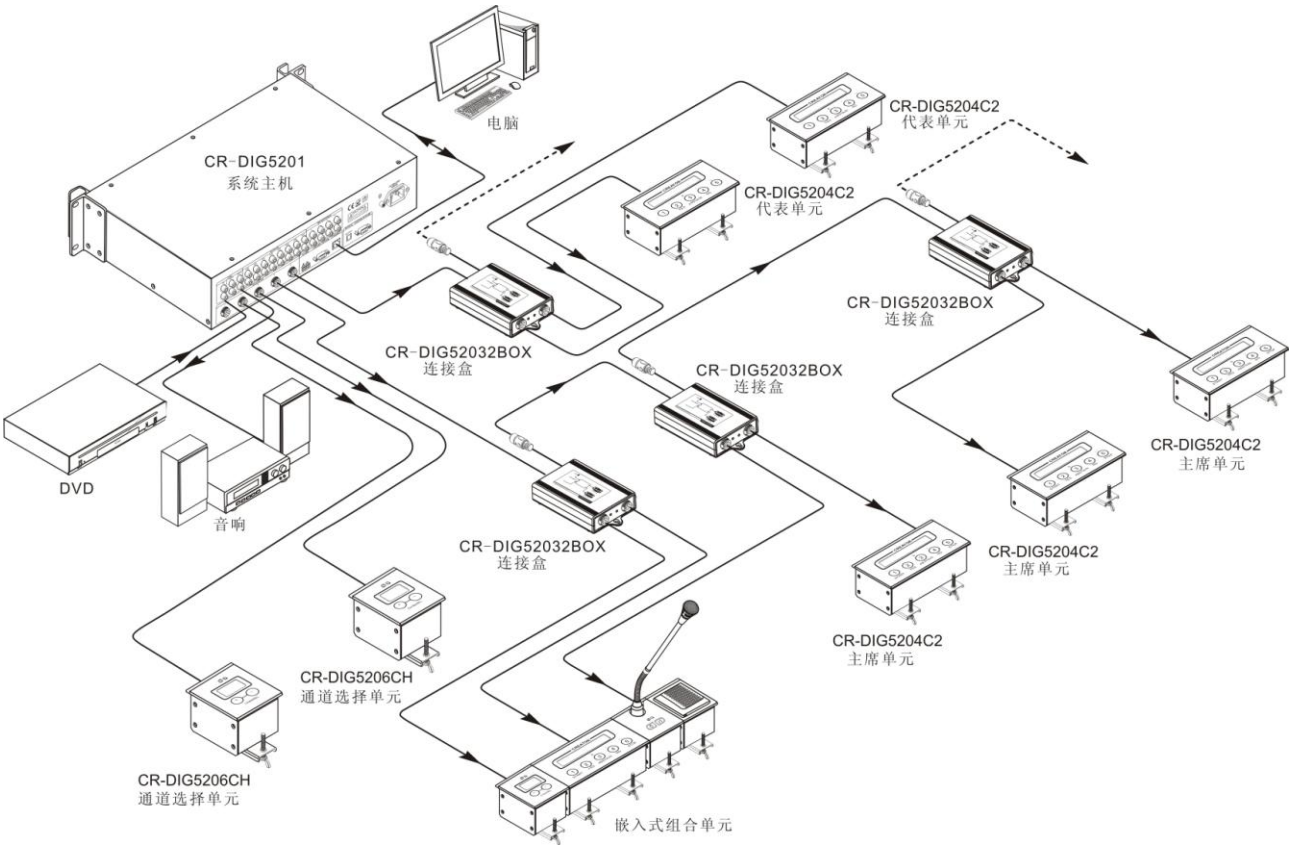
4.9.2.3 short message sending

The software provides short message sending service, choose the staff required to send in venue management list, enter message content, and then press "Send Message" button. The messages can be sent individually or collectively.

4.10 System connection diagram

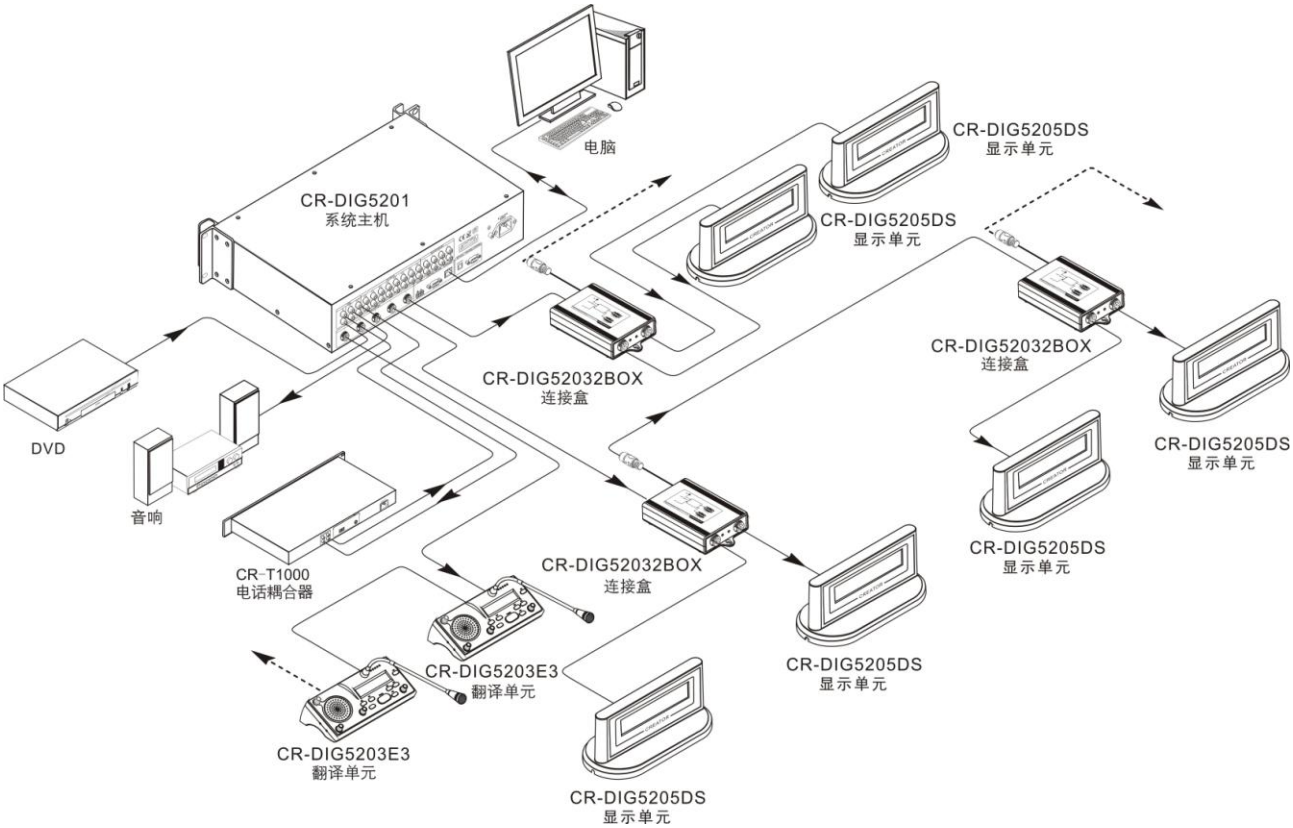
The connection methods of all digital conference system speech units are similar. Now list several for reference. Specific connections are as belows:

Connection diagram a



系统主机
The system host
电脑
Computer
音响
Audio
连接盒
Connection box
代表单元
Delegate unit
主席单元
Chairman unit
通道选择单元
channel selection unit
嵌入式组合单元
Embedded composite unit

Connection diagram b



翻译单元

translation unit

电话耦合器

Telephone coupler

系统主机

The system host

电脑

Computer

音响

Audio

连接盒

Connection box

显示单元

display unit

Chapter 5 Conference system connection box

CREATOR Conference units.

5.1 system connection box

CR-DIG52032BOX connection box has extended functionality and convenience of engineering applications, you can use it with

5.1.1 features

◆ hand in hand ″way to connect;

◆ 8core high-density air interface, with

nut knob connector, make the connect of the device more stable;

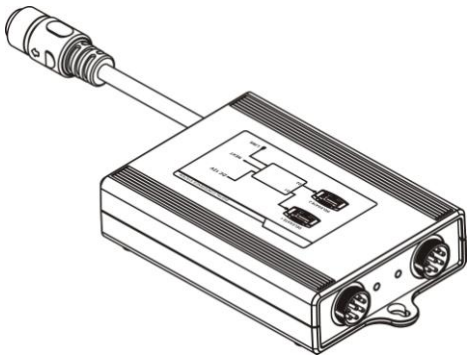
◆ each digital interface to connect two speech units;

◆ "LINK" interface is connected to the upper digital interface or directly connected to Conference host and active expansion connection box;

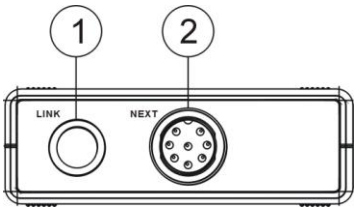
◆ connect to the next digital interface by "NEXT" interface.

5.1.2 panel description

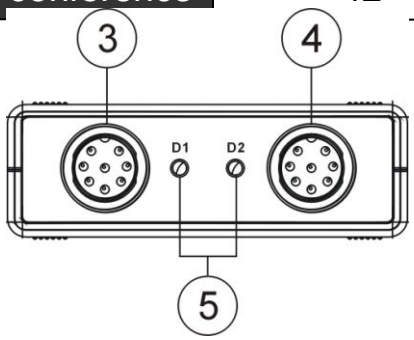
front view:



side view:



side view:



① 2 meters air routes. connect to host or the upper digital interface box.

② connect to the next digital interface box.

③ connect to Conference unit.

④ connect to Conference unit.

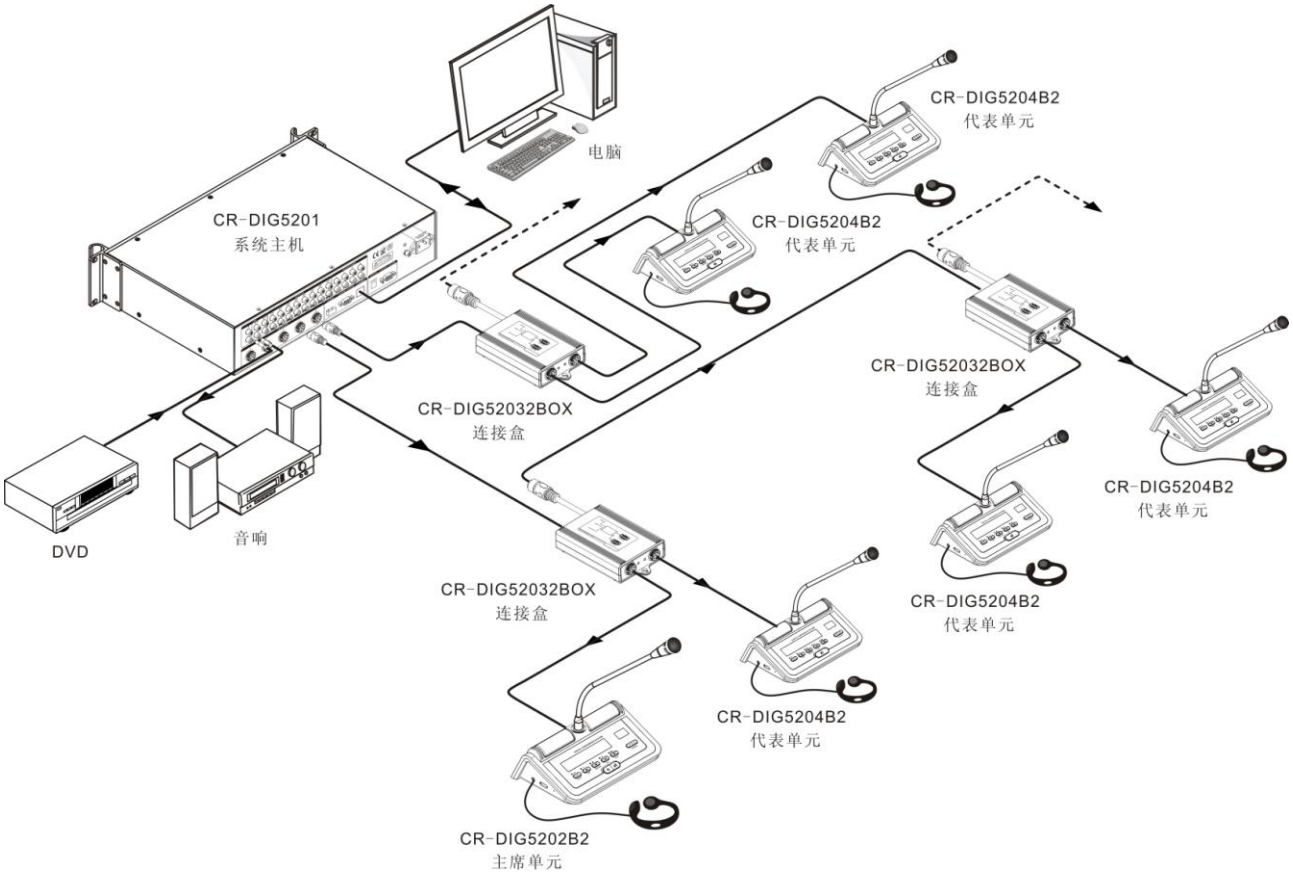
⑤ if connect ③ port to Conference units, connected properly, D1 indicator flashes. D1 indicator stays light, normal connections, no data. D1 indicator stays dark, abnormal connections or no connection. Similar to D2,.

Note: connect ②port (NEXT port) to the next connection box. Forbid to connect ③, ④ port to the next connection box. Even though the function is OK, the load capacity is comparatively weak.

5.1.3 technical parameters

Parameter	CR-DIG52032BOX
Power Supply	The host power or DC24V input
Maximum power	0.9W
Input interface Input /output	1*2m 8core air line, 3*8 core aerial head
Dimension(mm)	135.6LX86W X28.8H（mm）
Color	dark grey

5.1.4 connection diagram



系统主机
The system host
电脑
Computer
音响
Audio
连接盒
Connection box
代表单元
Delegate unit
主席单元
Chairman unit

5.2 Active expand connection box

Active expand connection box CR-DIG5200EXP of all digital conference system is a connection box to provide power and enhance signals for conference unit.

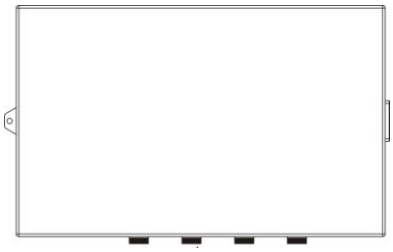
5.2.1 features

◆ with communication status indicator to provide fault tips;

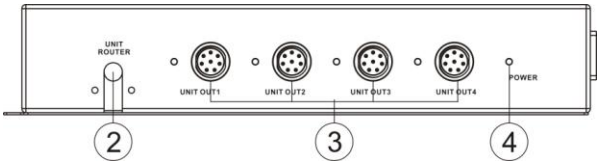
◆ can be connected to 4-way unit, can provid 350W power at the maximum.

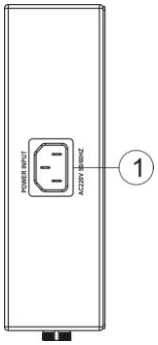
5.2.2 Descriptions of panel functions

Top view：



Panel view：





① **POWER INPUT——Power input port**

Connect power input port, supports 110/220V AC power input.

② **UNIT ROUTER——aviation bus**

1.6 m air bus

③ **UNIT1~UNIT4——speak Unit Interface**

4-way speech unit interface, 8core air outlet, used to connect unit machine.

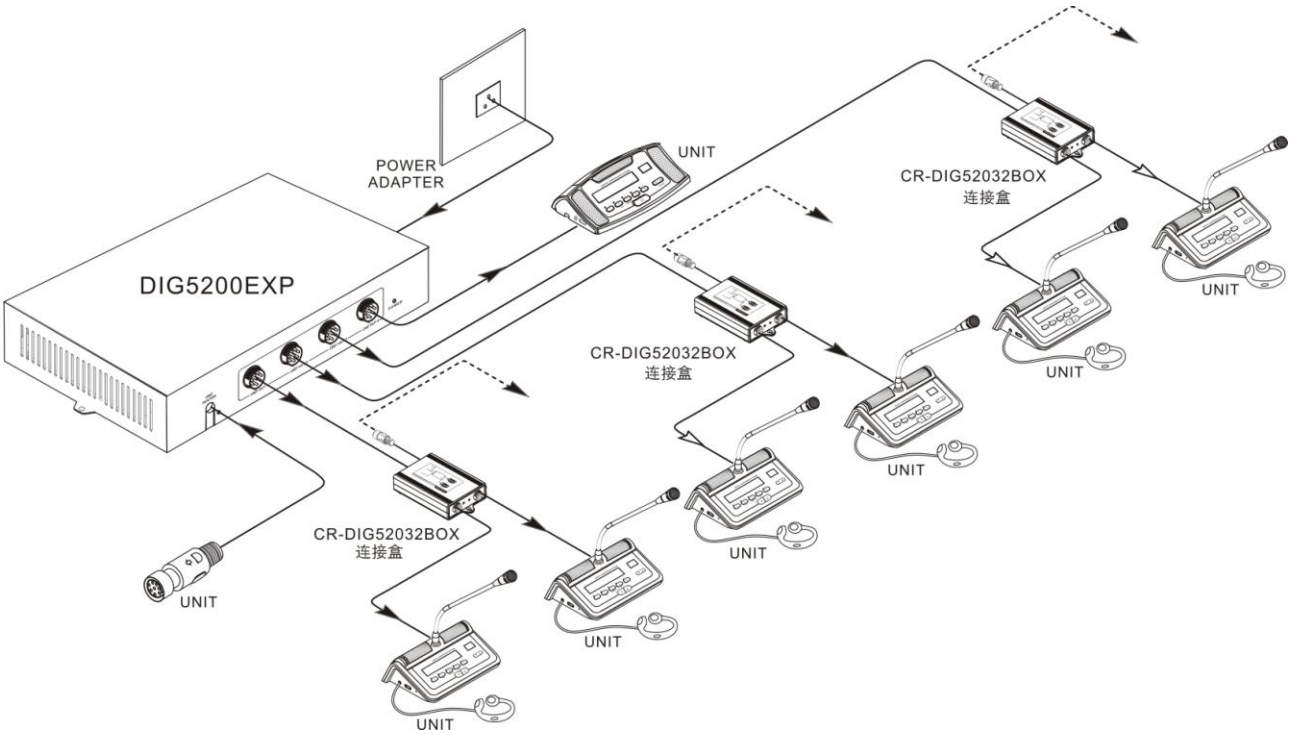
④ **POWER——the power indicator**

Indicator lights up when connection box is normally powered.

5.2.3 Technical parameters

Parameter	CR-DIG5200EXP
Power Supply	110/220V AC
Output power	350W
Unit interface	
input	1*2m*8core air bus 4*8 core aerial head
output	
Dimension(mm)	280LX180WX53H
Color	dark grey

5.2.4 System connection diagram



连接盒

Connection box

Chapter 6 Accessories

6.1 CR-P2 Earphone（no mic）

6.1.1 Function description

◆ can be used in simultaneous interpretation conference unit for monitoring;

◆ can be used in conferencing systems to avoid being influenced by others;

◆ comes with 1.5 m cable

◆ high-fidelity sound quality.

6.1.2 technical parameters

technical parameters	CR-P2
Unit interface	3.5mm mono connector
Frequency range	80Hz – 2KHz
Sensitivity	90dB
Signal-to-noise ratio (S/N)	＞80dB
Distortion	＜0.1dB
Impedance	32 Ω
Dynamic range	＞85 dB
Output power	100mW

6.2 CR-P4 earmuffs with microphone headset

6.2.1 Function description

◆ light delicate shape makes users feel more comfortable;

◆ work with the translation unit of simultaneous interpretation system for listening and speaking;

◆ can be used in conferencing systems to avoid being influenced by others;

◆ 40mm high-level special speaker;

◆ comes with 2.2 m long cable;

◆ high-fidelity sound quality;

◆ 32 Ω, 3.5mm mono plug.

6.2.2 technical parameters

technical parameters	CR-P4
Ways to wear	Headset
Frequency range	20Hz – 2KHz
Impedance	32 Ω± 15%Ω
Unit interface	3.5mm
Sensitivity	105dB ± 3dB
cable length	2.2mm

6.3 CR-M4KL415Knob 415mm MIC Stand

Function description

◆Heart-shaped directional Condenser MIC;

◆High-density 5-core air interface.

◆Normal speech indicator;

◆Speech application indicator

6.4 CR-CT20 conference desktop sockets

Product Description

◆ 1-way front input UNIT;

◆ 2-way output: UNIT A and UNIT B connect speech unit;

◆ Suitable for desktop, wall installation.

6.5 CR-CT30 pop-up conference socket

Product Description

◆ 1-way front input UNIT;

◆ 2-way output: UNIT A and UNIT B connect speech unit;

◆ 1-way universal power connector;

◆Suitable for ground, desktop installation.

6.6 CR-CT50 8 core air interface

Product Description

◆ one male and one female, spiral, contractors can weld

6.7 Installation of cables

Product Description

◆ the CR-HL 005 5 meters air discuss unit line (8 core)

◆ the CR-HL 010 10 meters air discuss unit line

(8-core)

◆ the CR-HL 020 20 meters air discuss unit line (8 core)

◆ the CR-HL 050 50 meters air discuss unit line (8 core)

◆ the CR-HL 100 100 meters air discuss unit line (8 core)

Features
◆ the CR-HL * used to extend the connection between Conference host and expansion host or Conference speech units;

◆ with five optional specifications: 5 m, 10 m, 20 m, 50 m, 100 m
◆ 8-core cable, a male and a female connectors;

◆ transmission distance up to 1000 m.

Product Description
◆ CR-HT002 2 m T-aviation air discuss unit line (8 core)

Features
◆ CR-HT * used for shunt connection between Conference speech units;

◆ with 2 m, 5 m as optional specifications;

◆ 8-core cable, a male connector and a female connector.

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